



# Radial Cement Bond Gamma Ray Casing Collar Log

Company		Caerus Piceance LLC.	
Well		BJU B26 FED 24A-26-496	
Field		Grand Valley	
County		Garfield	
State		Colorado	
Country		USA	
Company		Caerus Piceance LLC.	
Well		BJU B26 FED 24A-26-496	
Field		Grand Valley	
County		Garfield	
State		Colorado	
Country		USA	
Location:		API # : 05-045-24436	
Permanent Datum		Ground Level	
Log Measured From		Kelly Bushing	
Drilling Measured From		Kelly Bushing	
SEC 26 TWP 4S RGE 96W		Elevation 8211'	
Other Services		CNL	
Elevation		K.B. 8241'	
		D.F. 8240'	
		G.L. 8211'	
Date		23-DEC-2022	
Run Number		One	
Depth Driller		12437 FT	
Depth Logger		12350 FT	
Bottom Logged Interval		12335 FT	
Top Log Interval		Surface	
Open Hole Size		8.750"	
Type Fluid		Fresh Water	
Density / Viscosity		8.34 lb/gal	
Max. Recorded Temp.		298° F	
Estimated Cement Top		See Log	
Time Well Ready		ROA	
Time Logger on Bottom		11:00	
Equipment Number		8045	
Location		Grand Junction, Co.	
Recorded By		A. Ellsworth	
Witnessed By		Z. Fisher	
Borehole Record		Tubing Record	
Run Number		Bit	
8.75"		From	
		To	
		12437'	
		Size	
		Weight	
		From	
		To	
Casing Record		Size	
Surface String		9.625"	
Prot. String		4.5"	
Production String		11.6	
Liner			
		Wgt/Ft	
		36	
		Top	
		Surface	
		Bottom	
		3001 FT	
		12413 FT	

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

## Comments



Log ran as per customer request.  
Depth referenced to Kelly Bushing @ 30FT  
Marker Joint from 8034 FT - 8044 FT  
Log ran from 12350 FT to Surface  
Log ran with 0 PSI surface induced pressure.

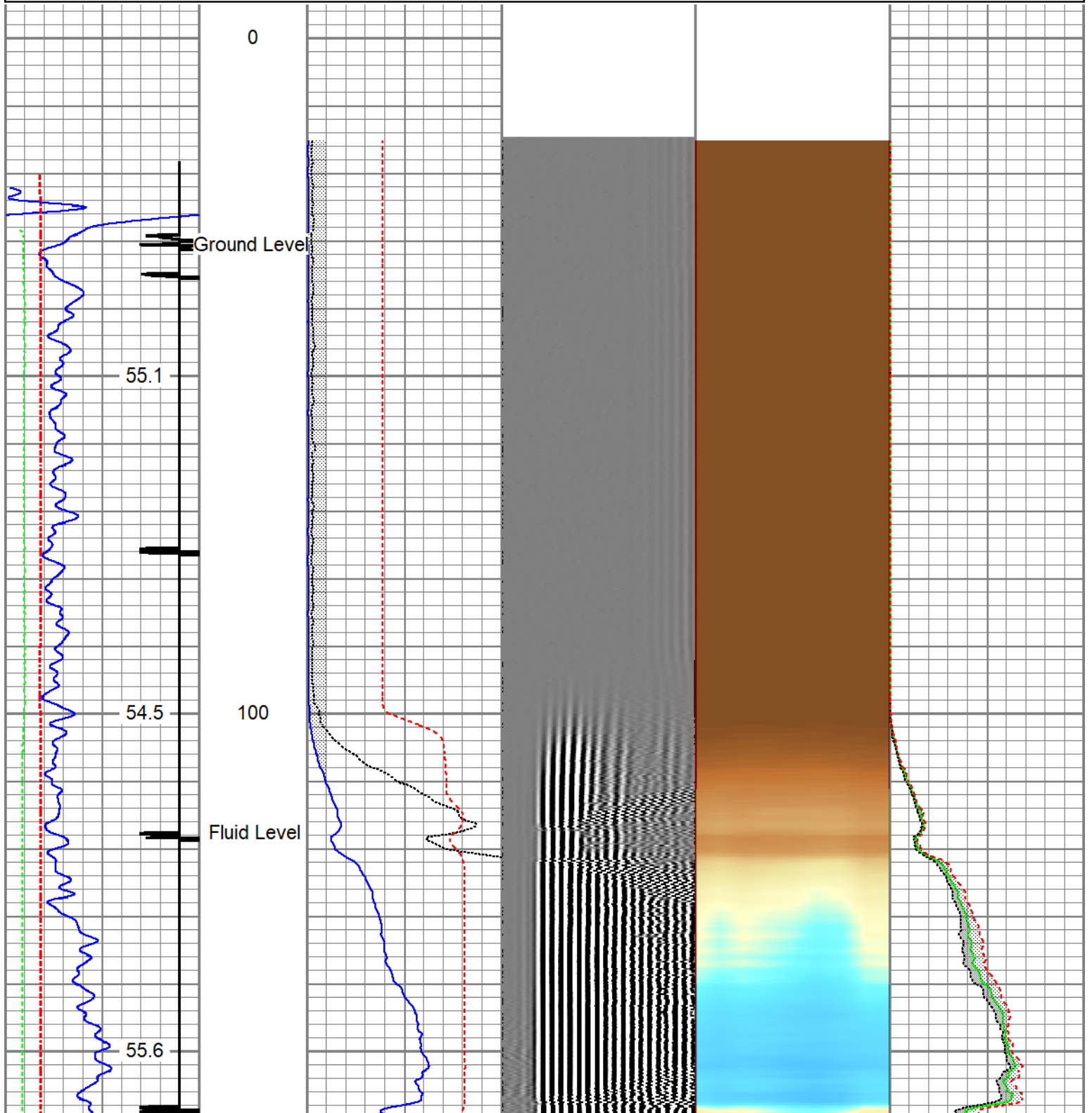
Thank you for choosing The Wireline Group!!!

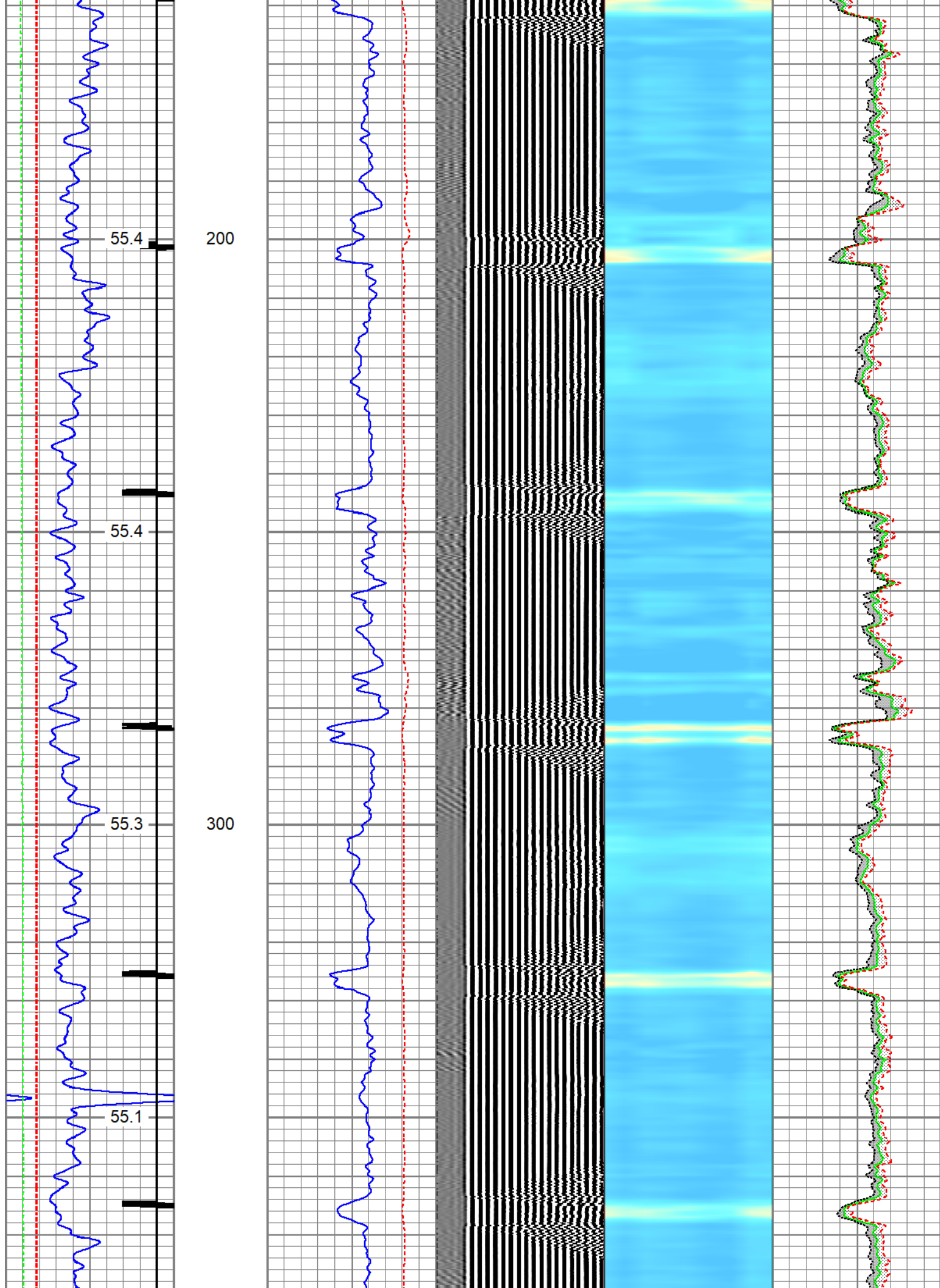


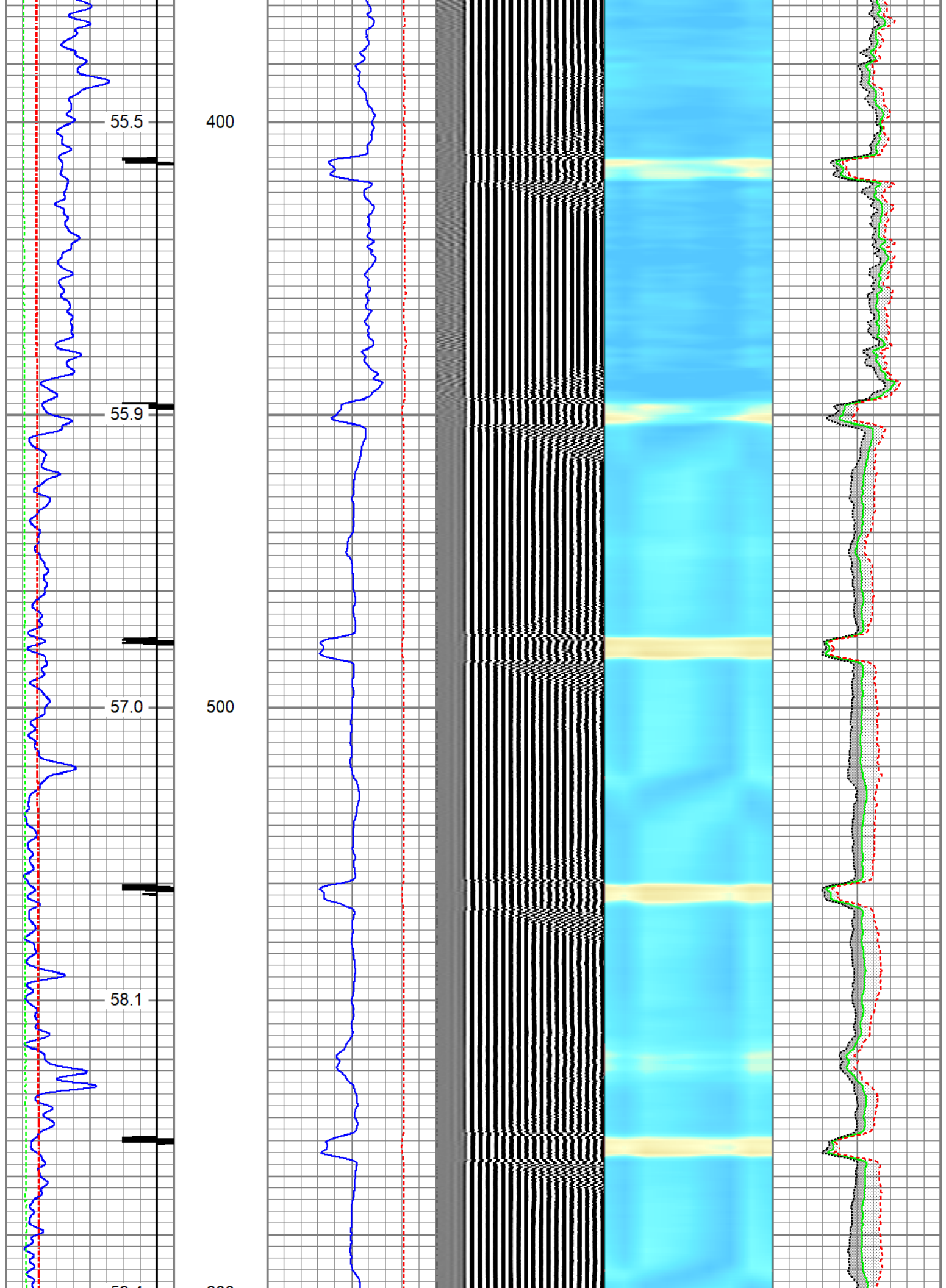
Main Pass 5" = 100'

Database File caerus\_bju b26 fed 24a-26-496\_rcbl-cnl\_12-23-2022.db  
Dataset Pathname main  
Presentation Format twgrcbl  
Dataset Creation Fri Dec 23 10:55:04 2022  
Charted by Depth in Feet scaled 1:240

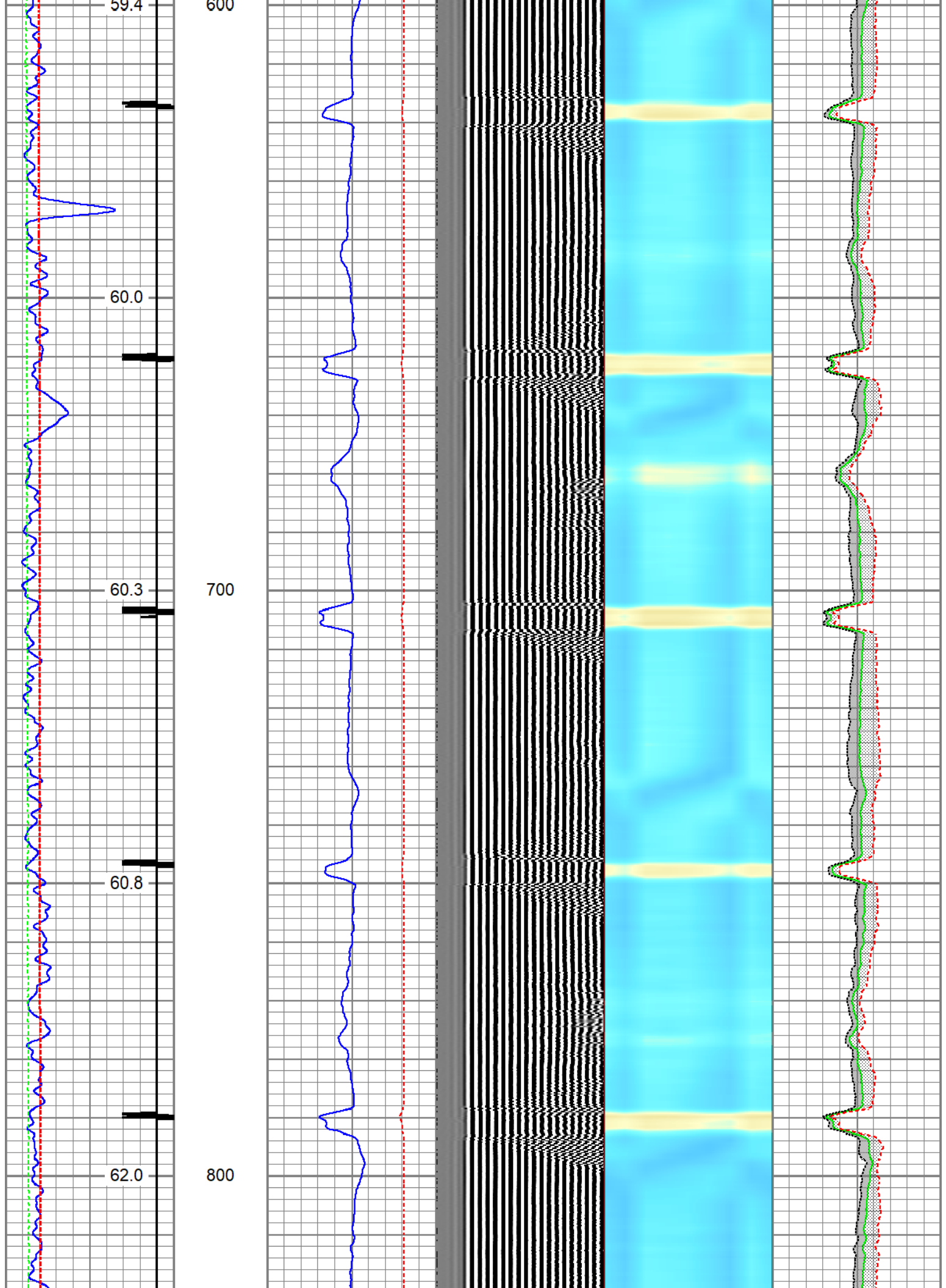
Gamma Ray			3' Amplitude			5' Variable Density Log			Sector Map			Average Amplitude		
0	(GAPI)	200	0	(mV)	100	200	(usec)	1200				0		120
Line Tension			3' Amplitude x 5									Minimum Amplitude		
0	(lb)	3000	0	(mV)	20							0		120
-9	CCL\$1	1	3' Travel Time									Maximum Amplitude		
0	Temp (degF)	300	650	(usec)	150							0		120

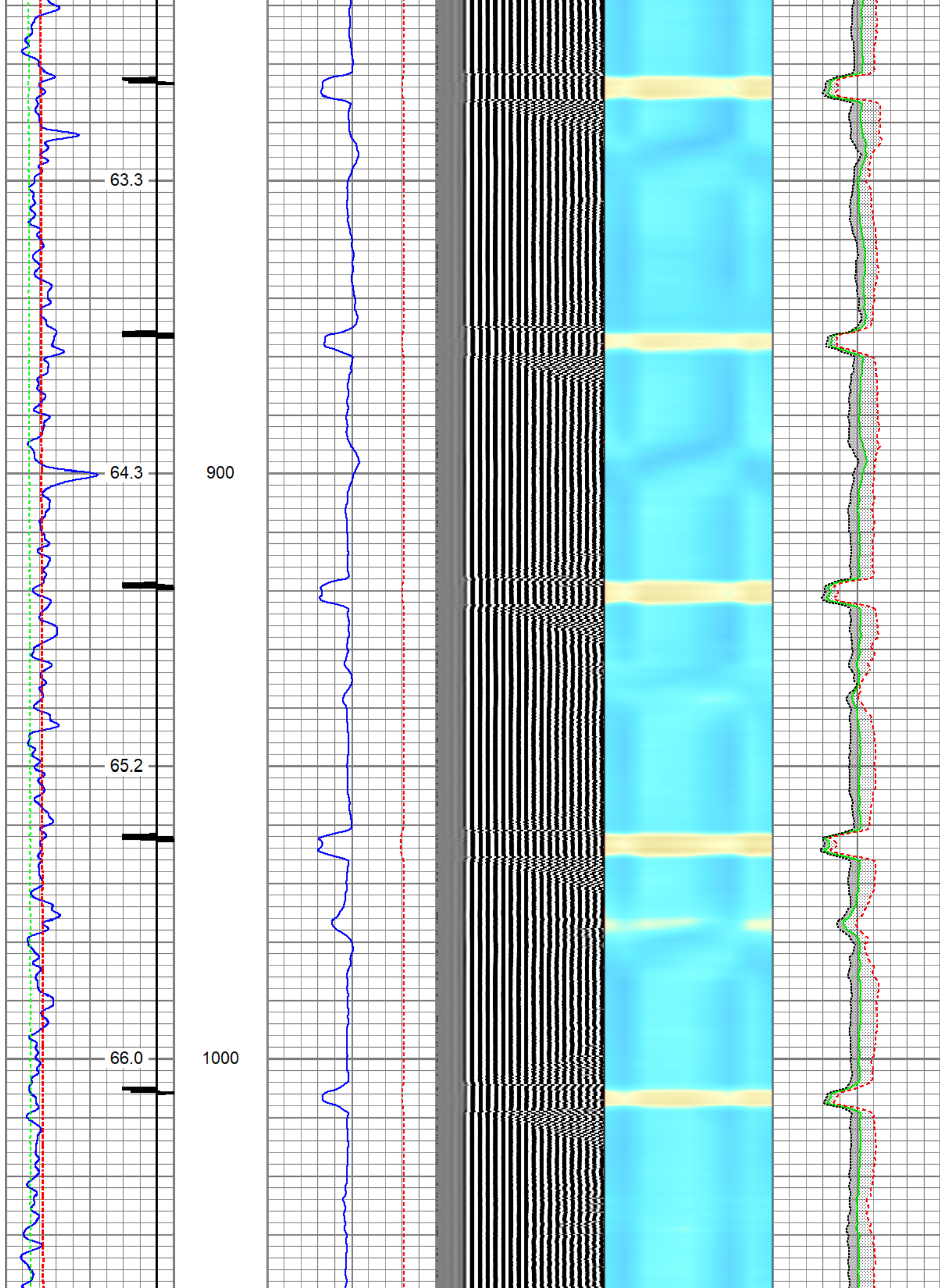


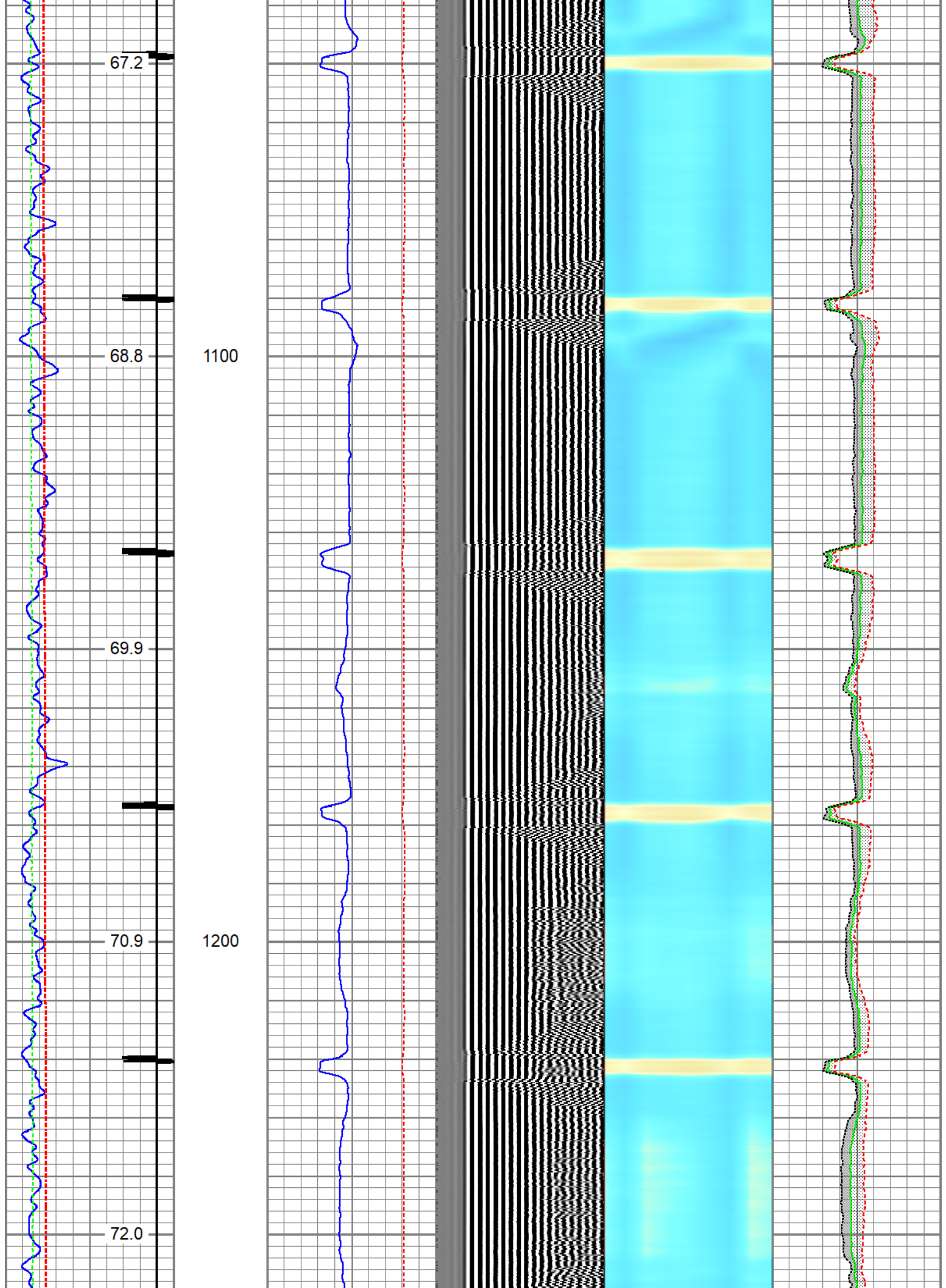


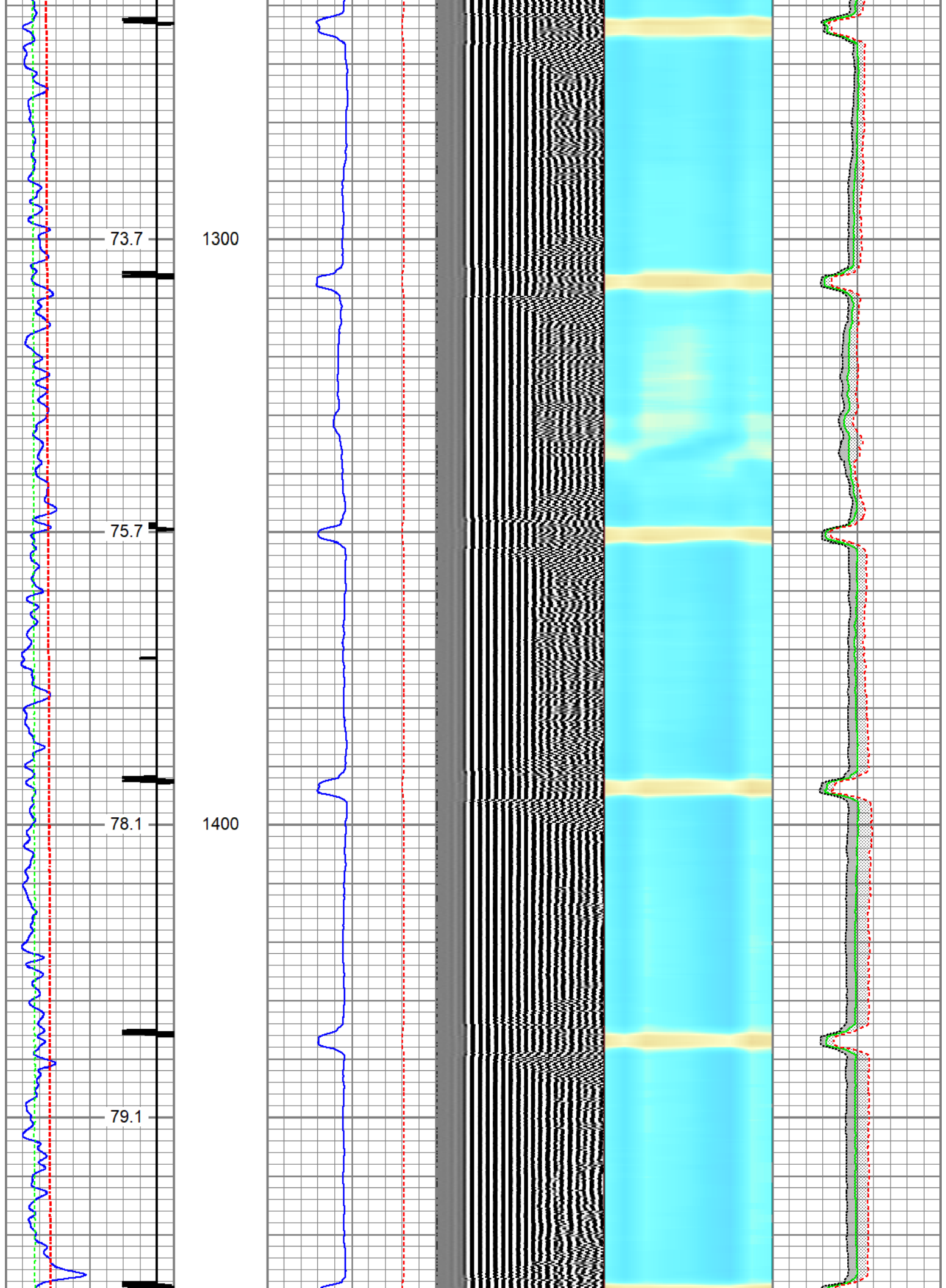




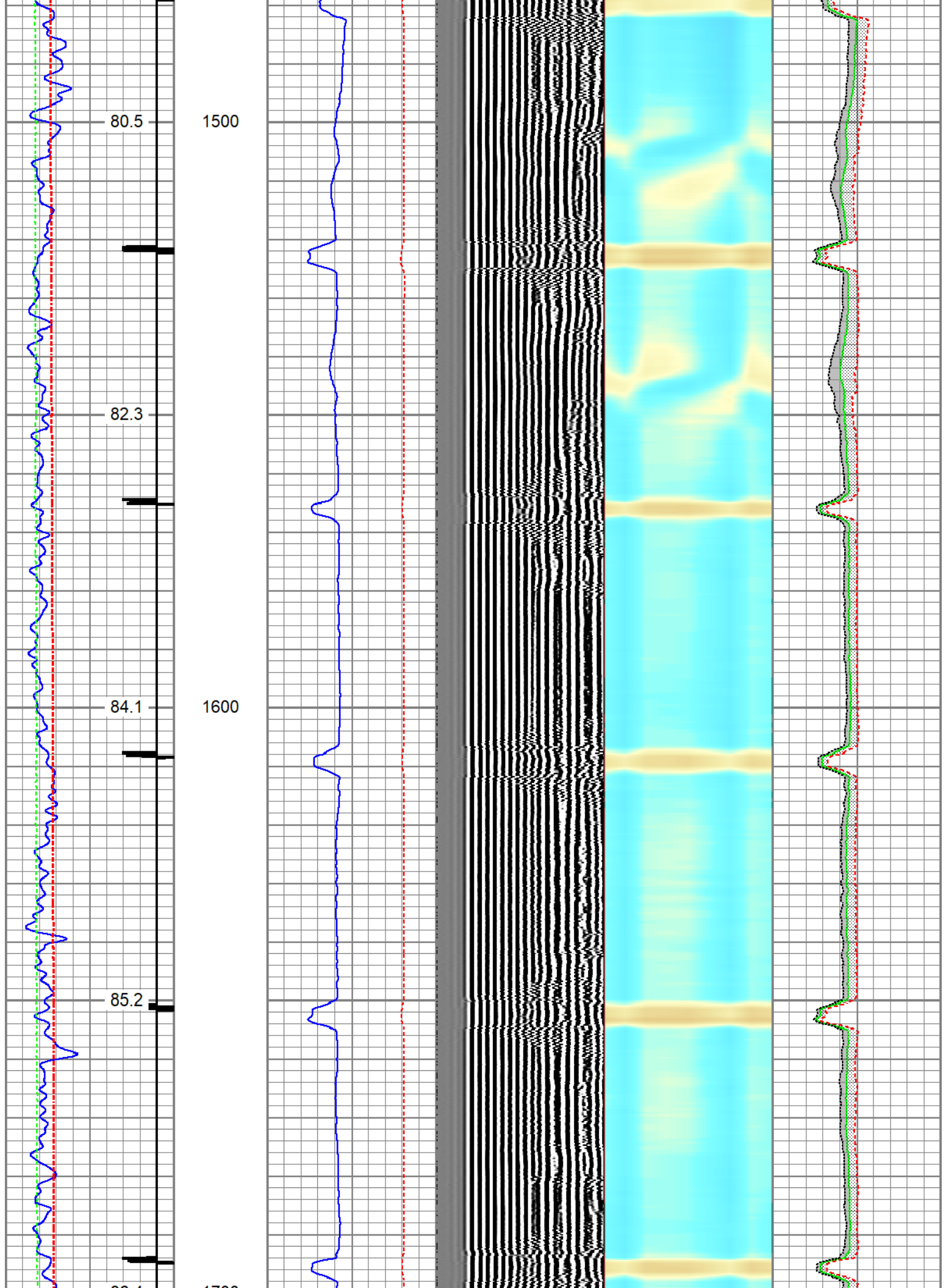


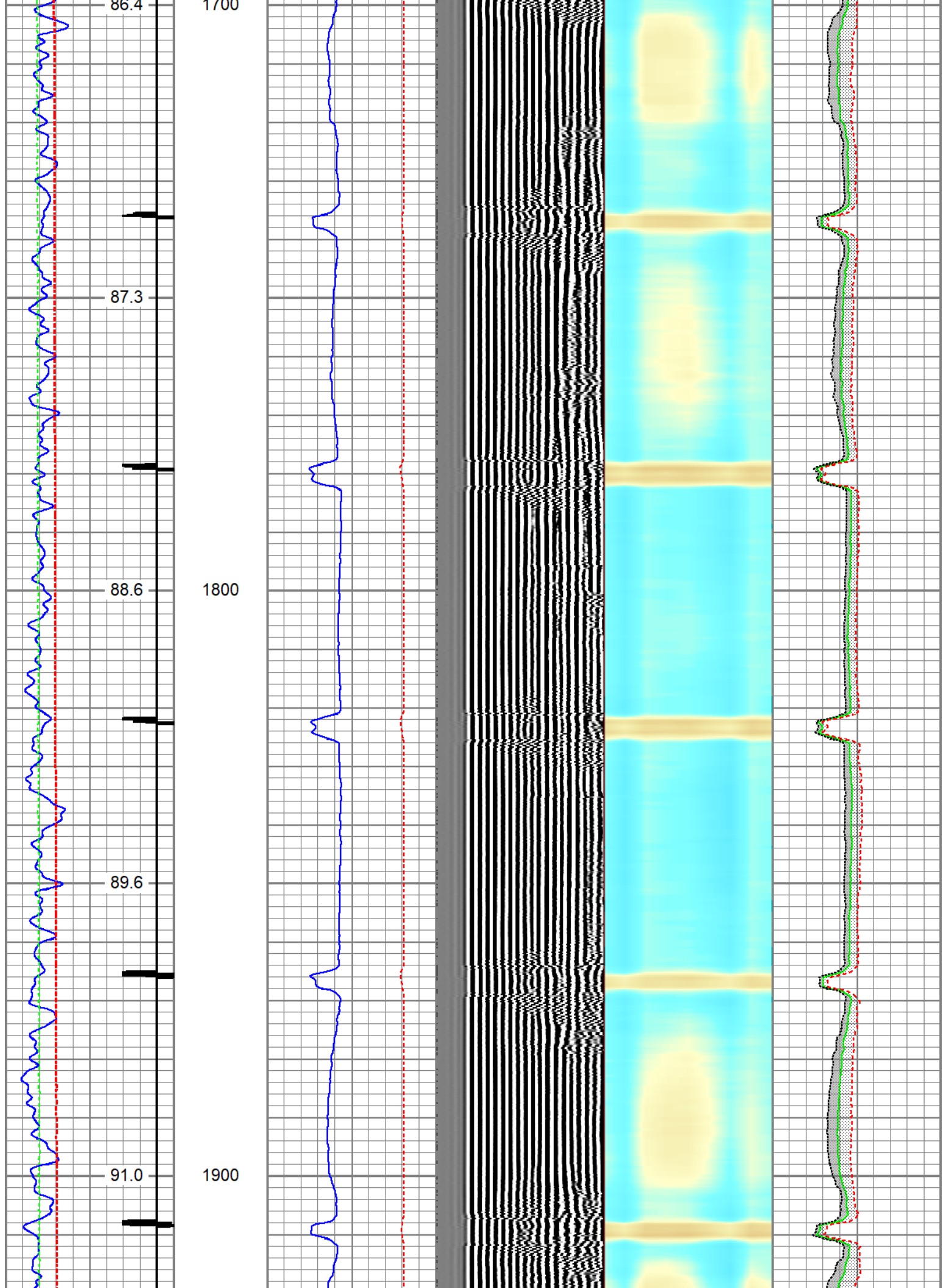


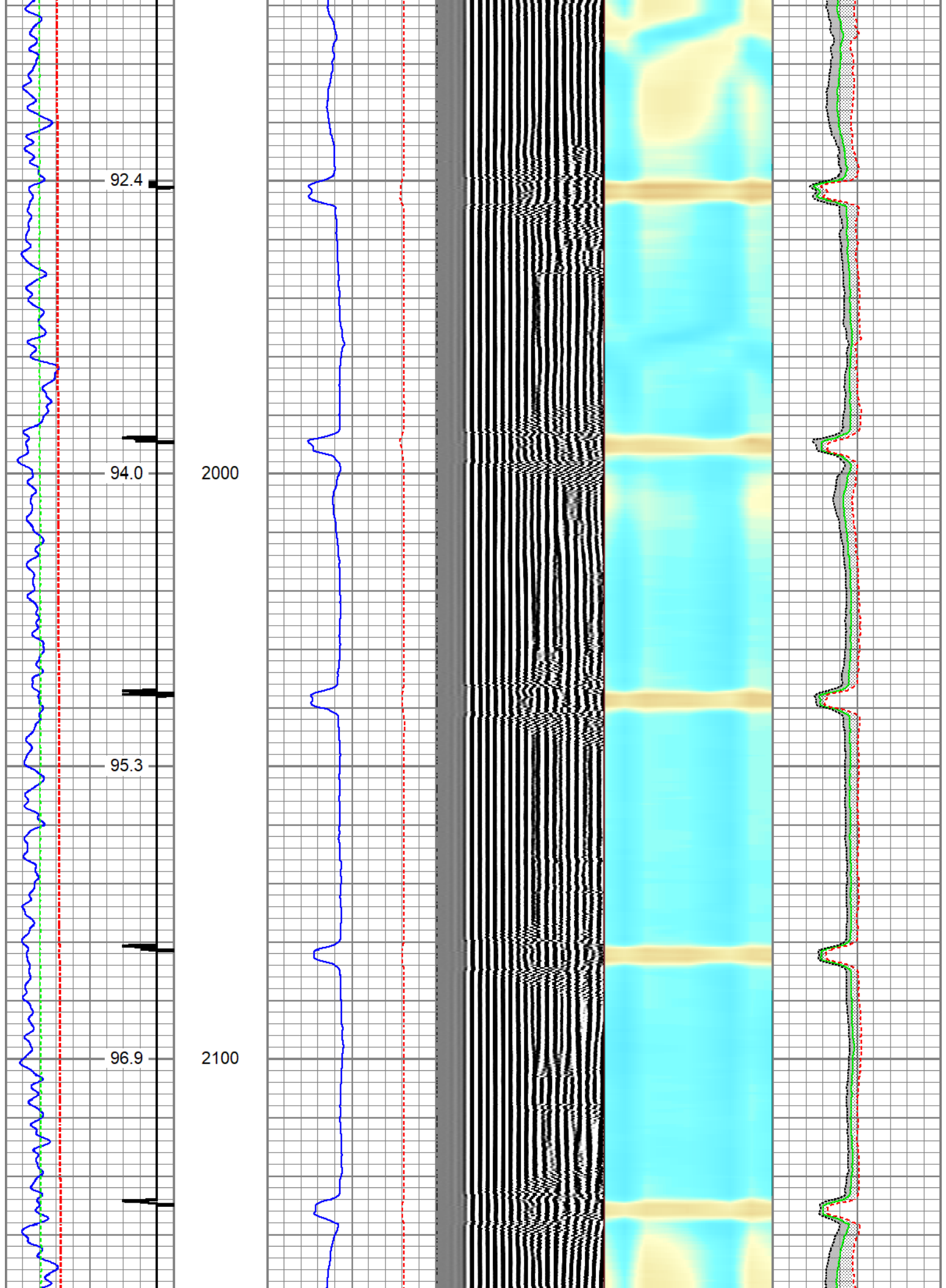


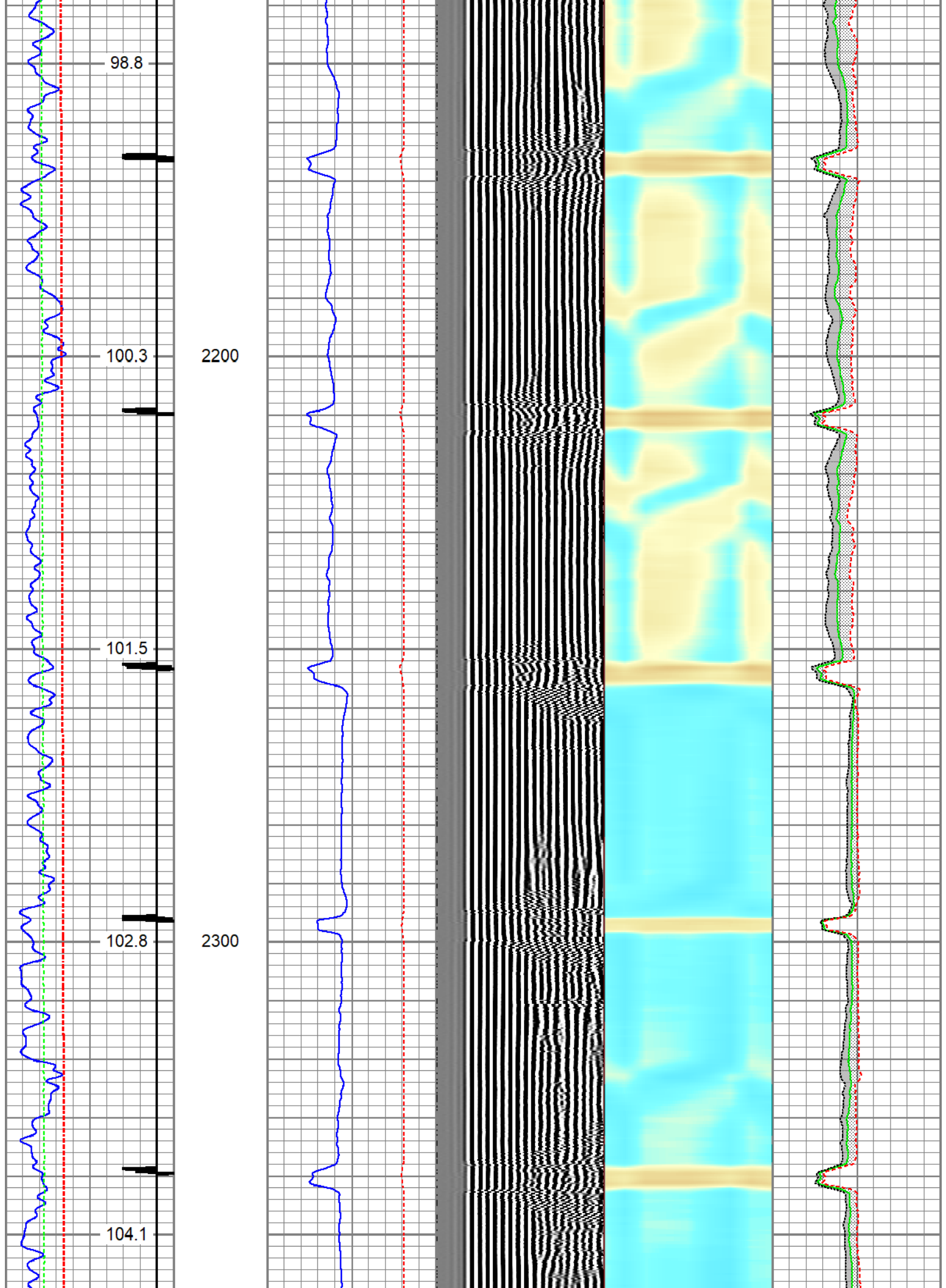




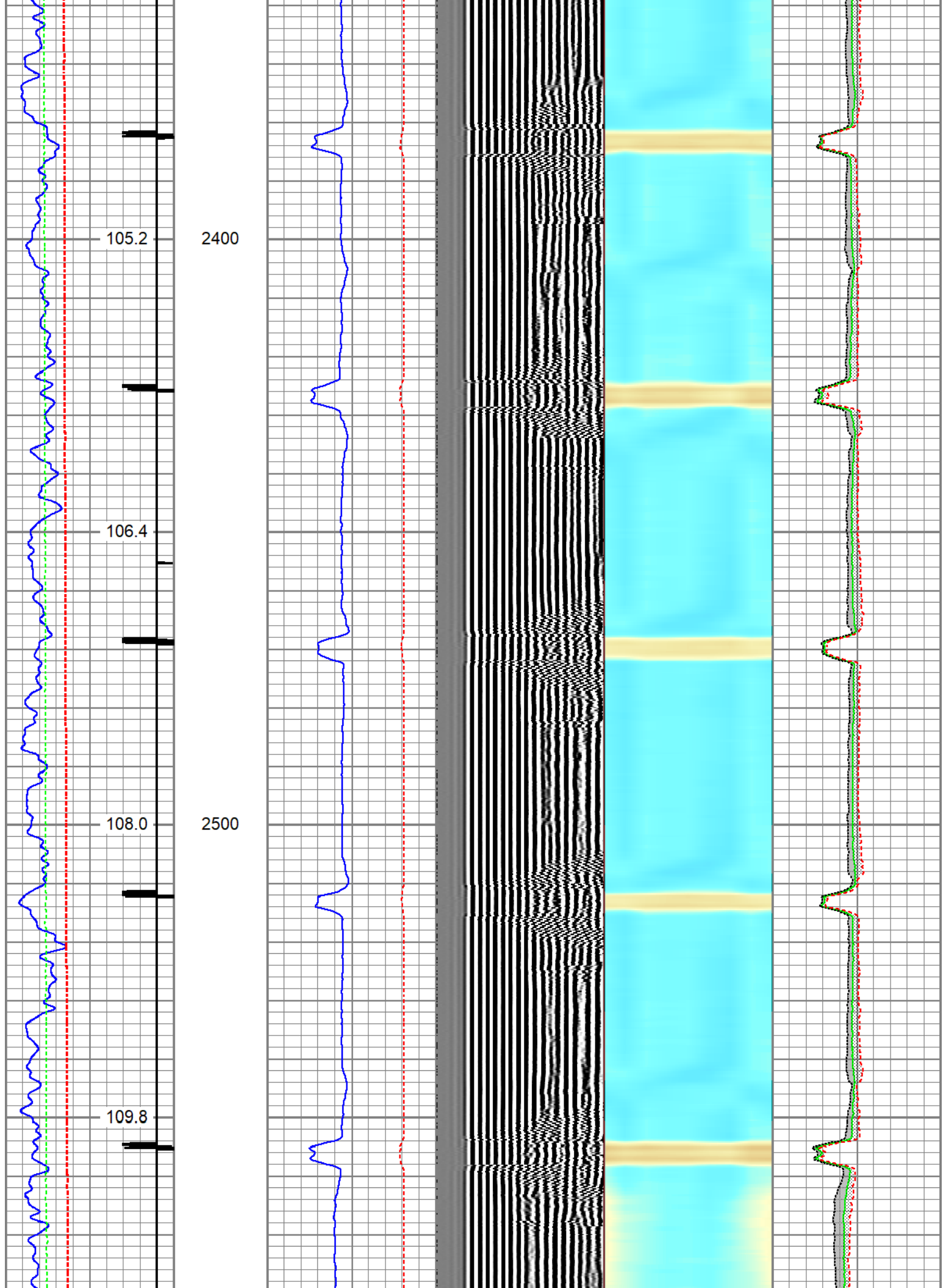


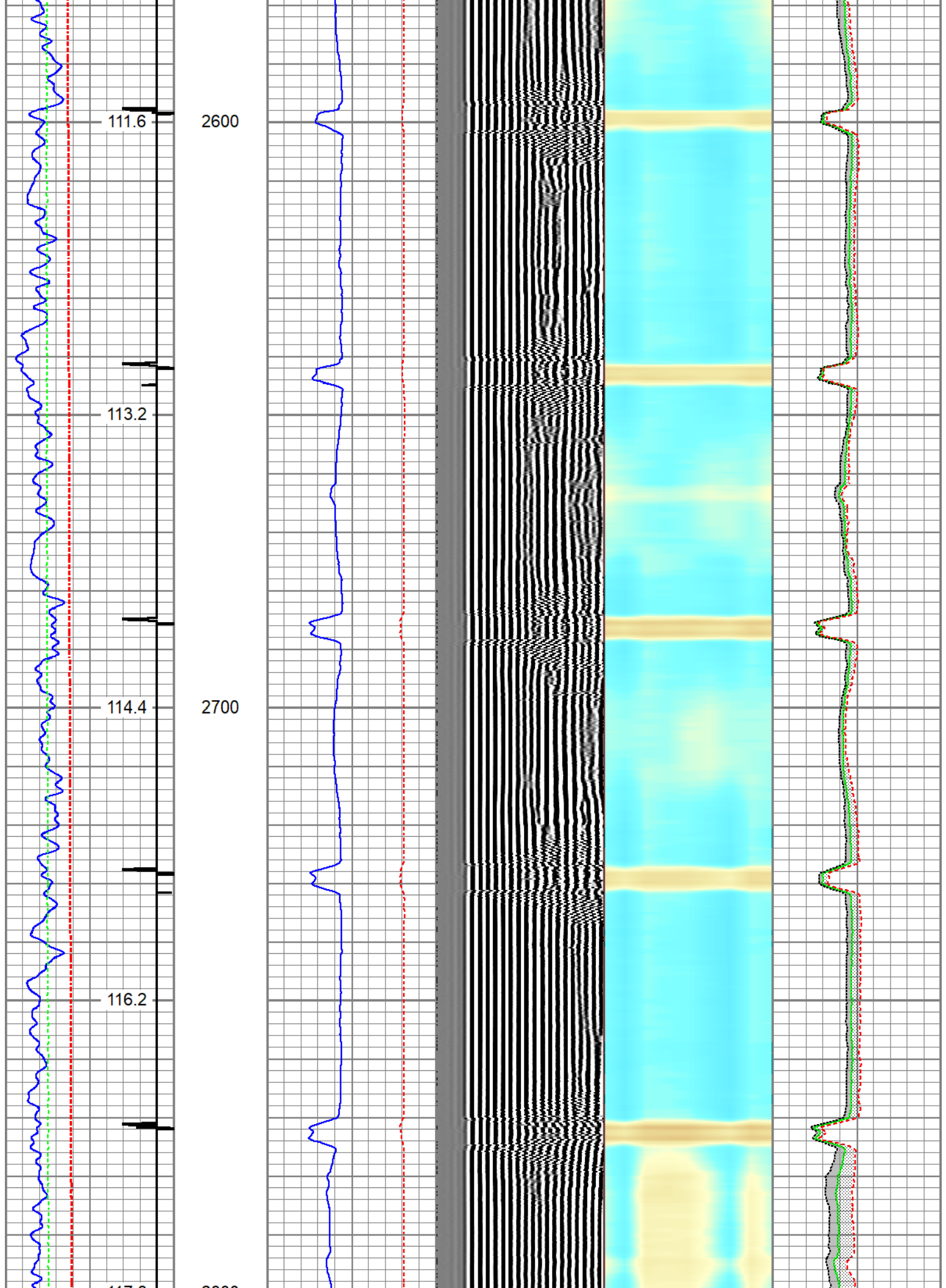


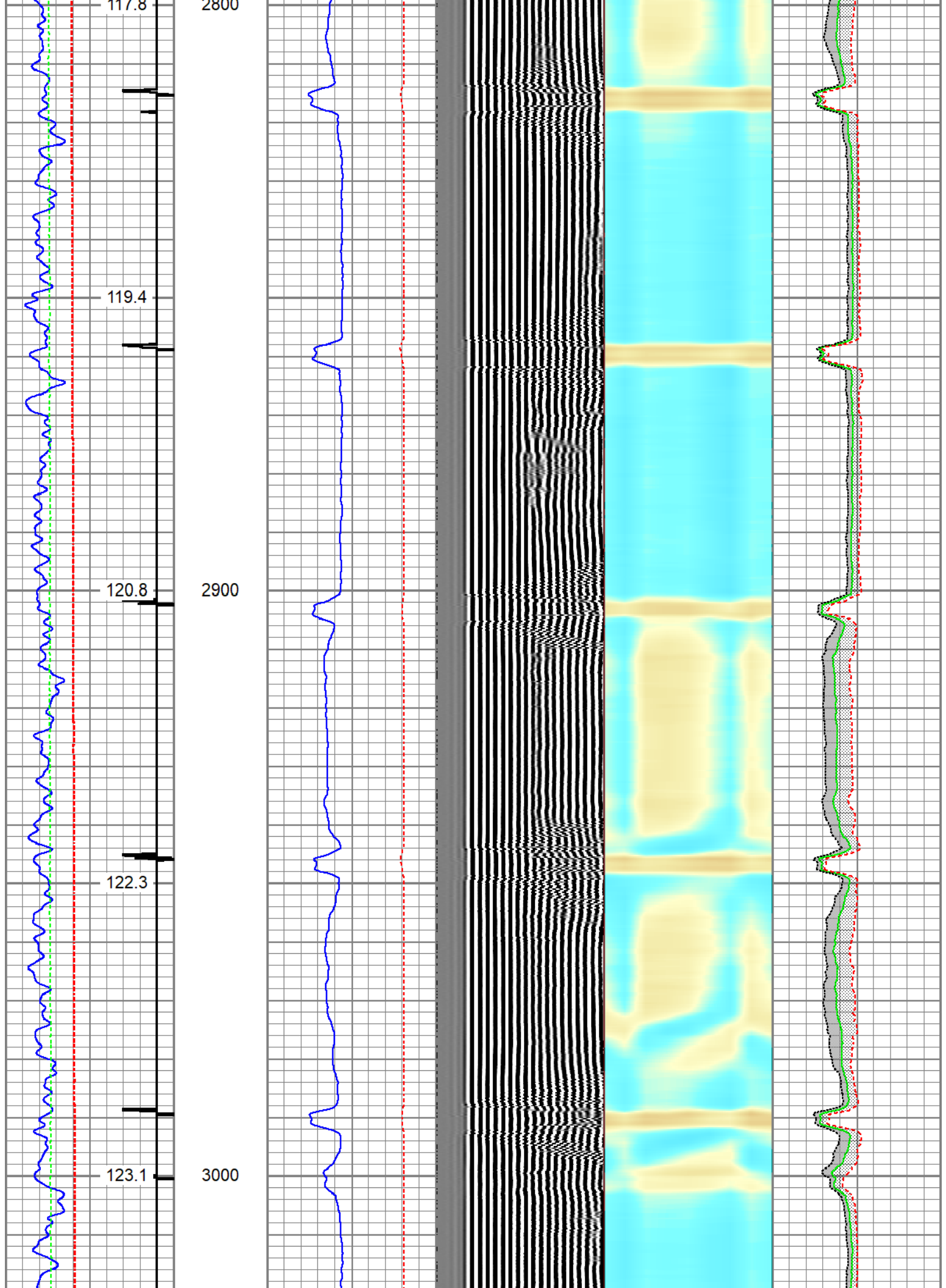


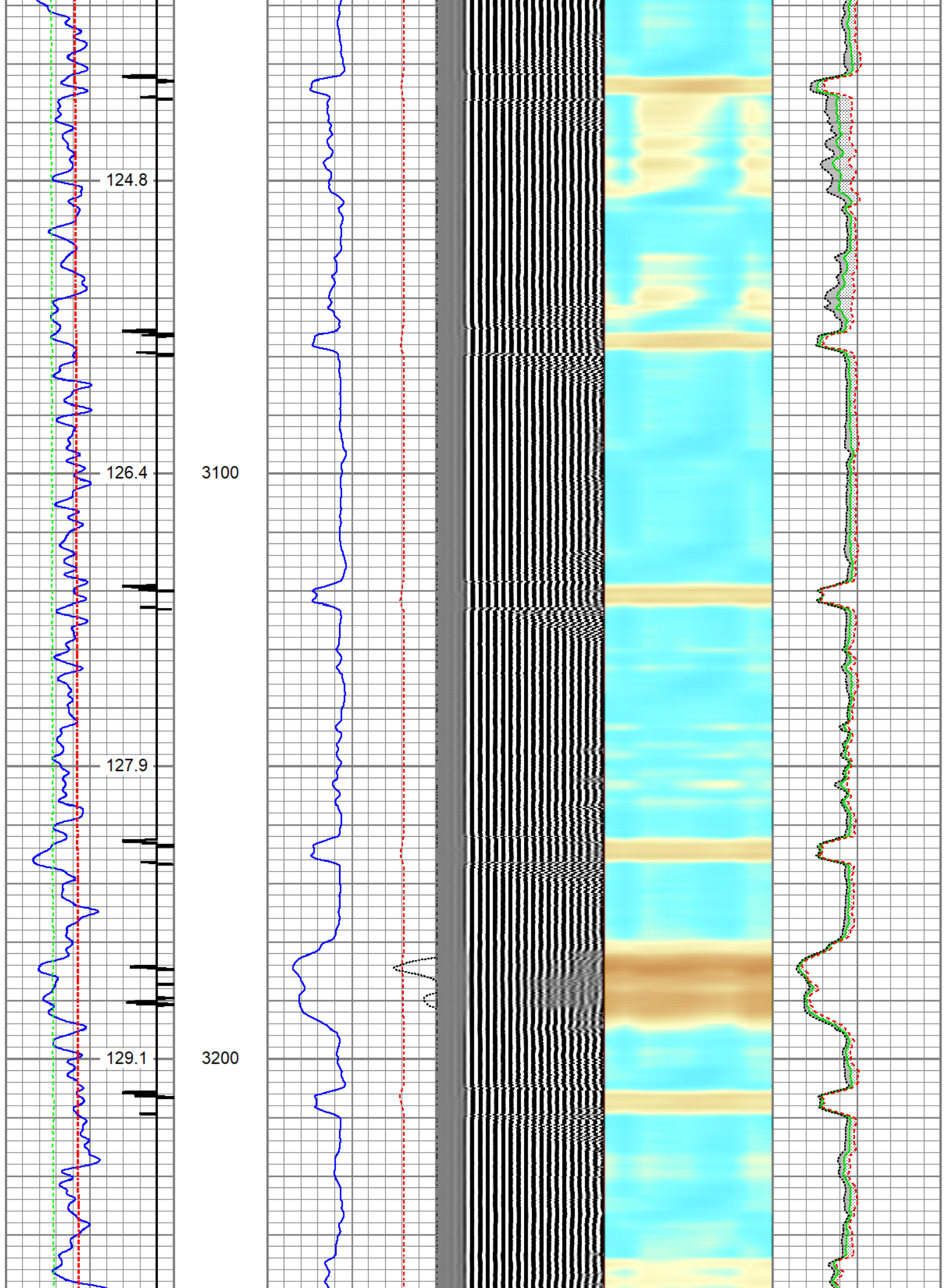




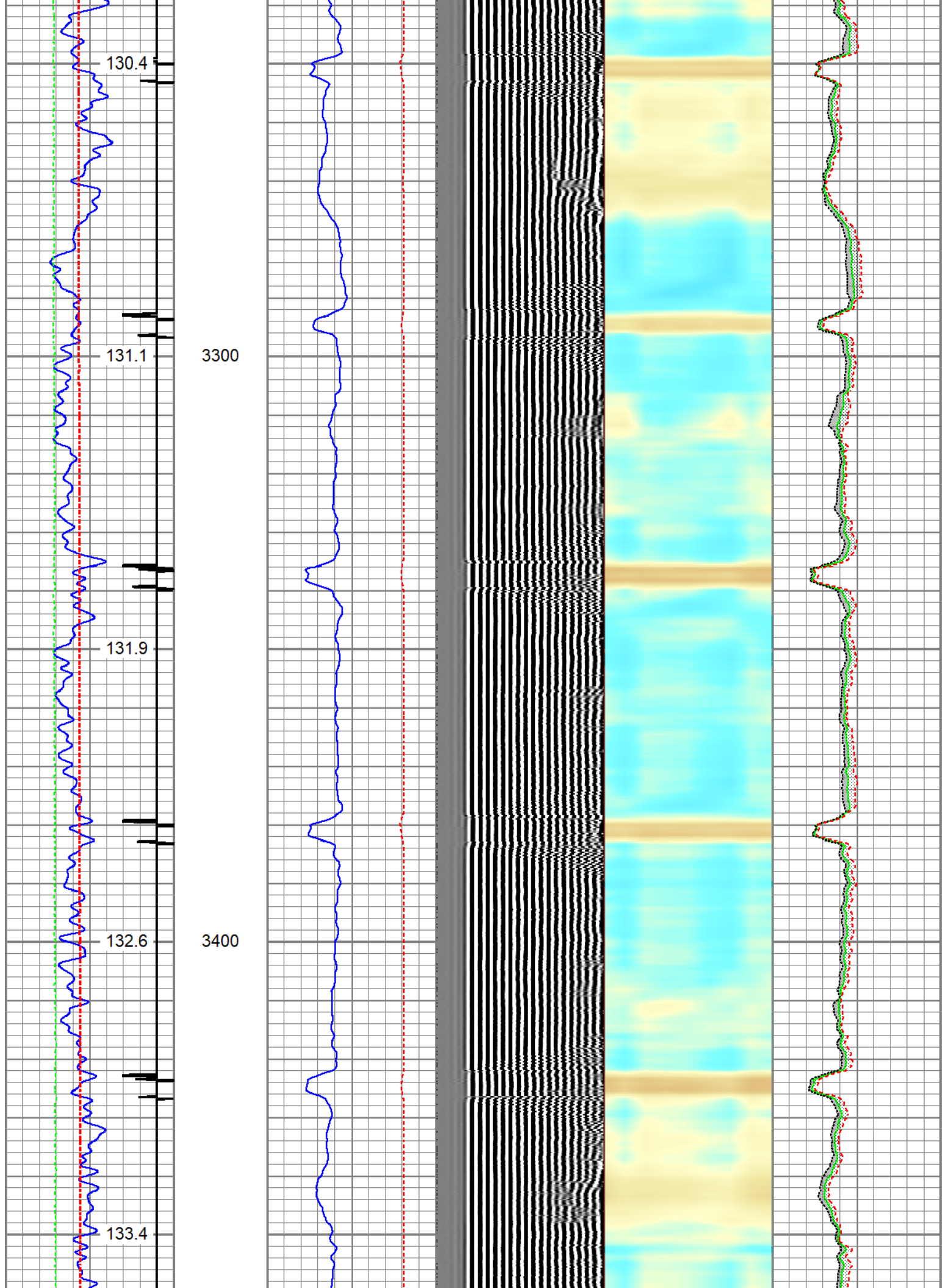


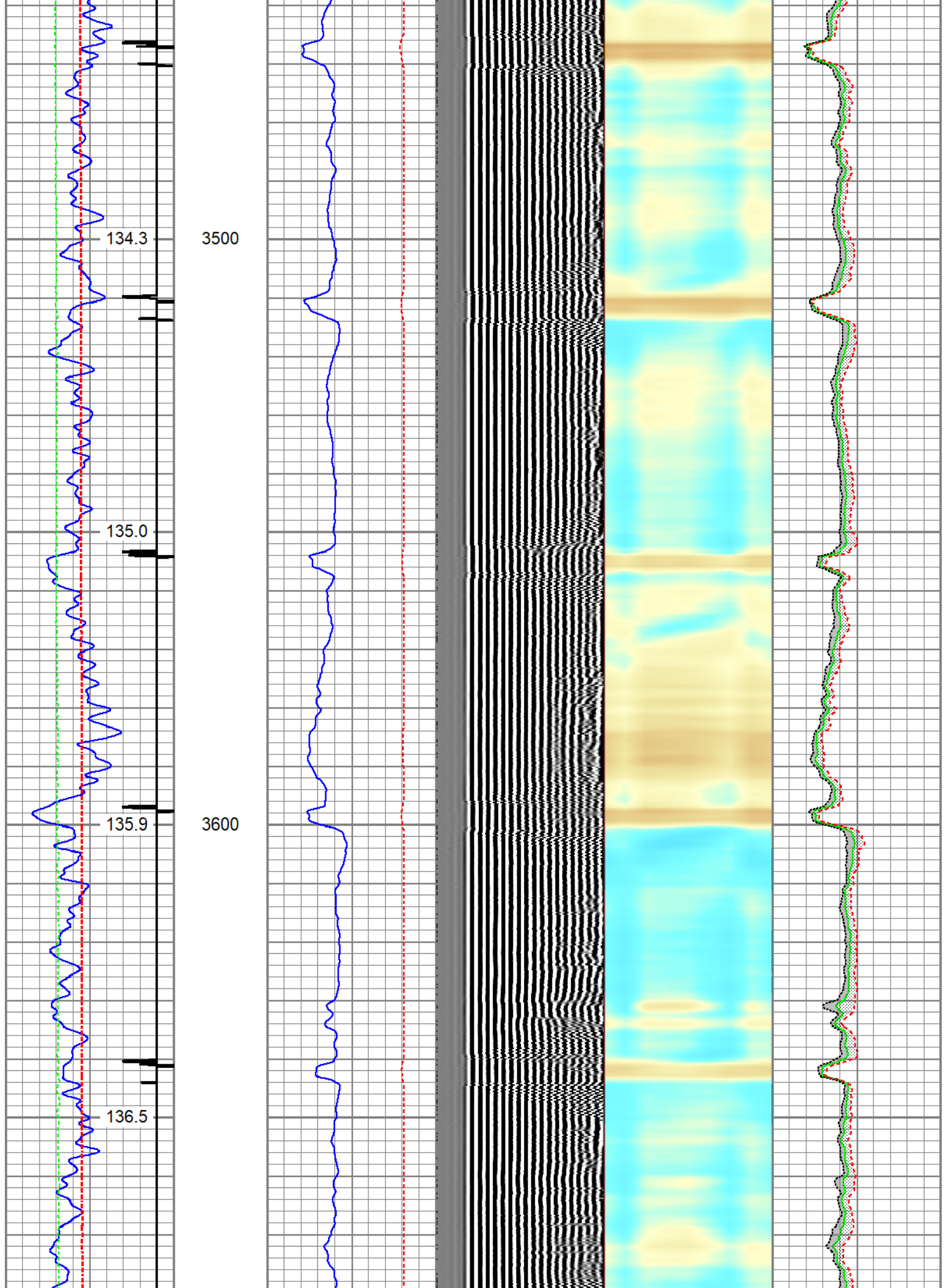


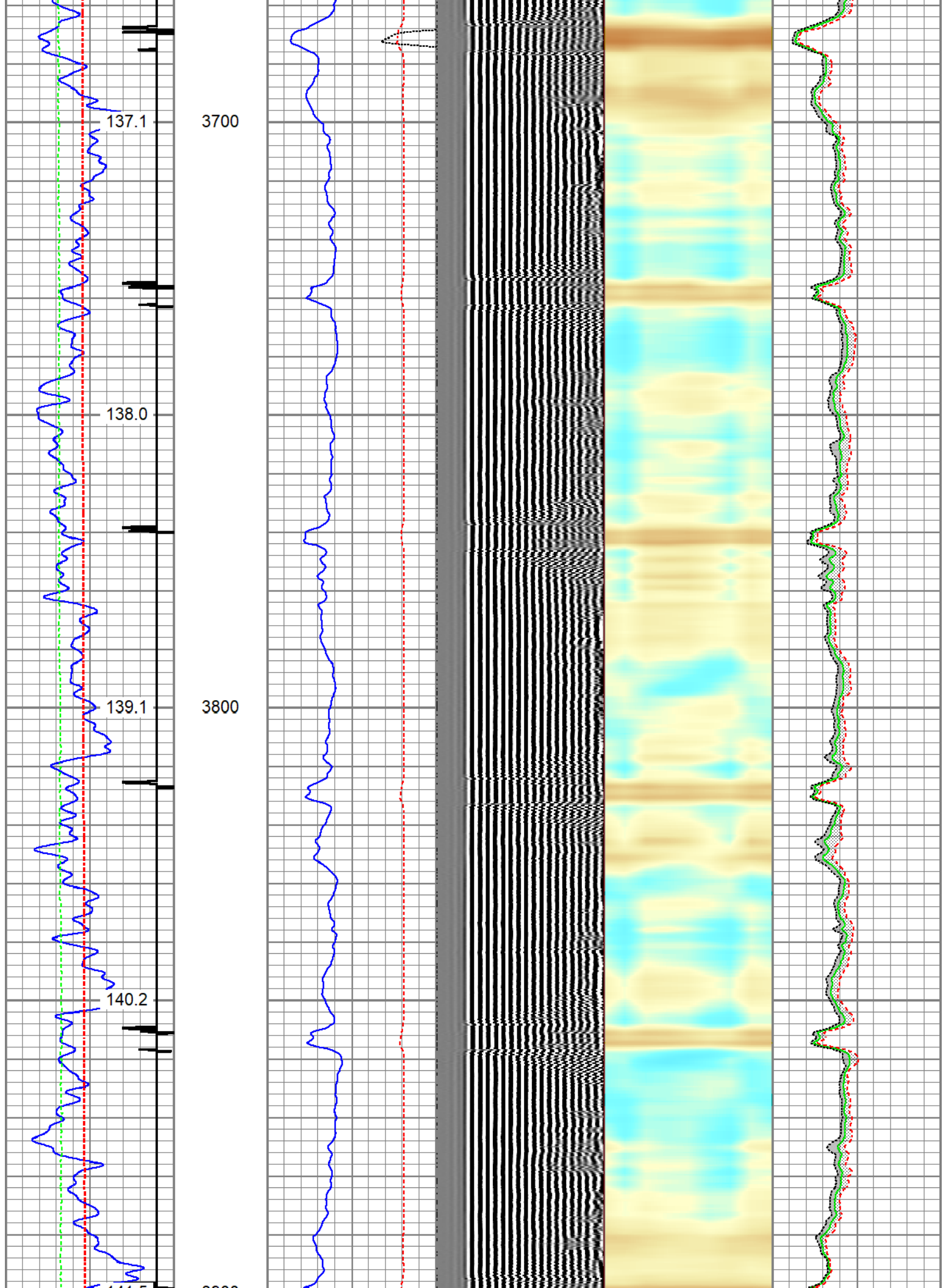




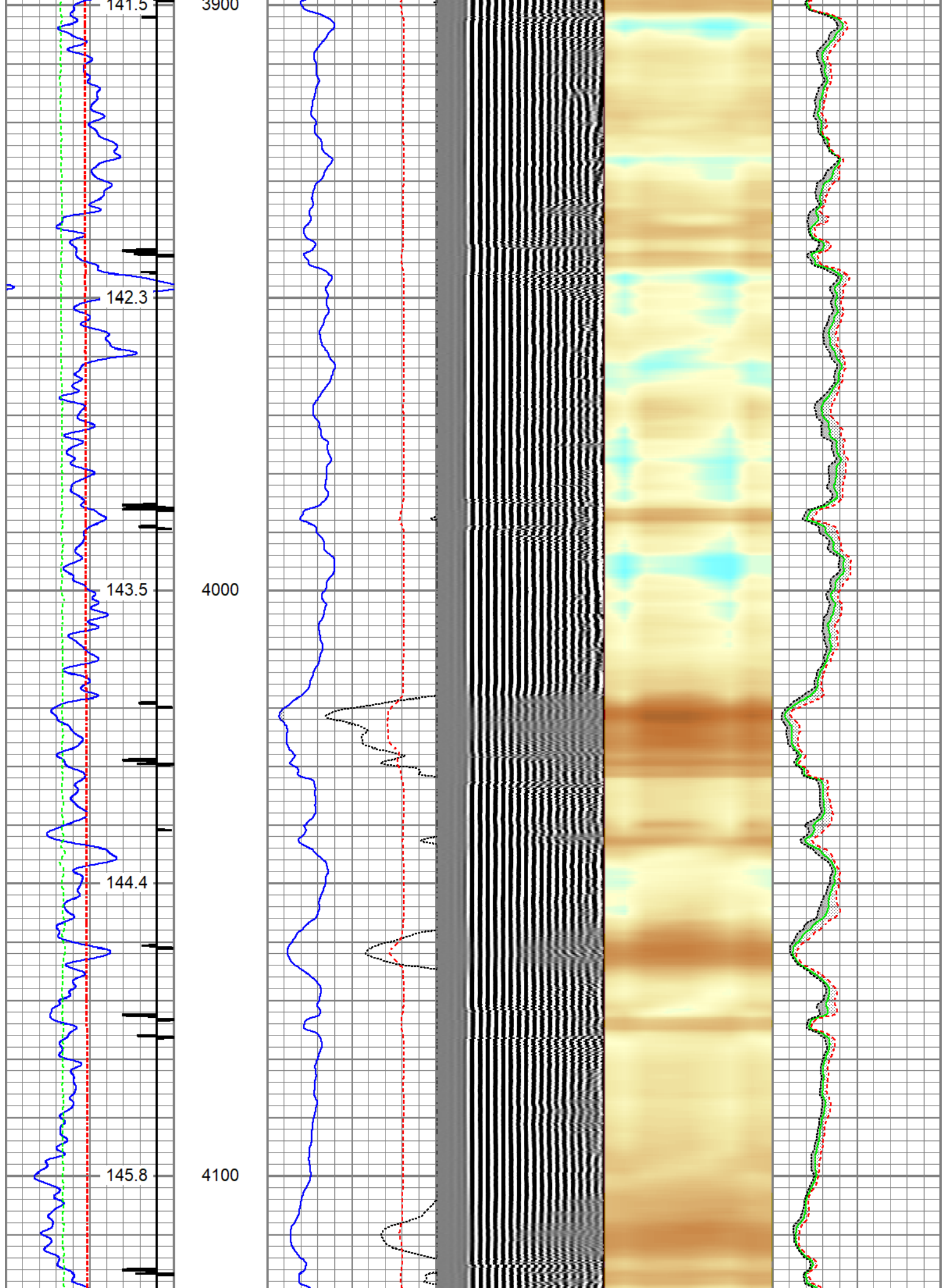




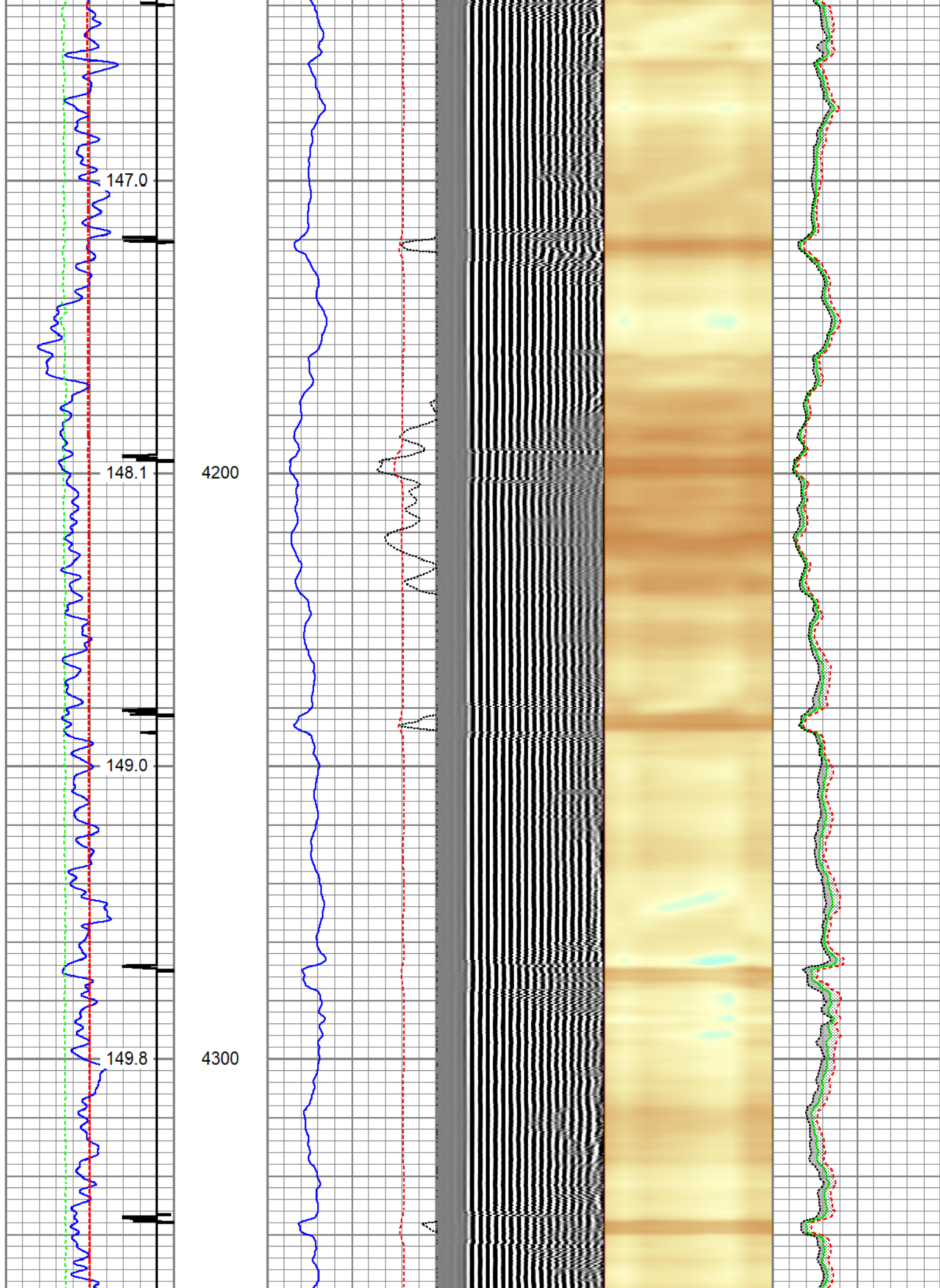


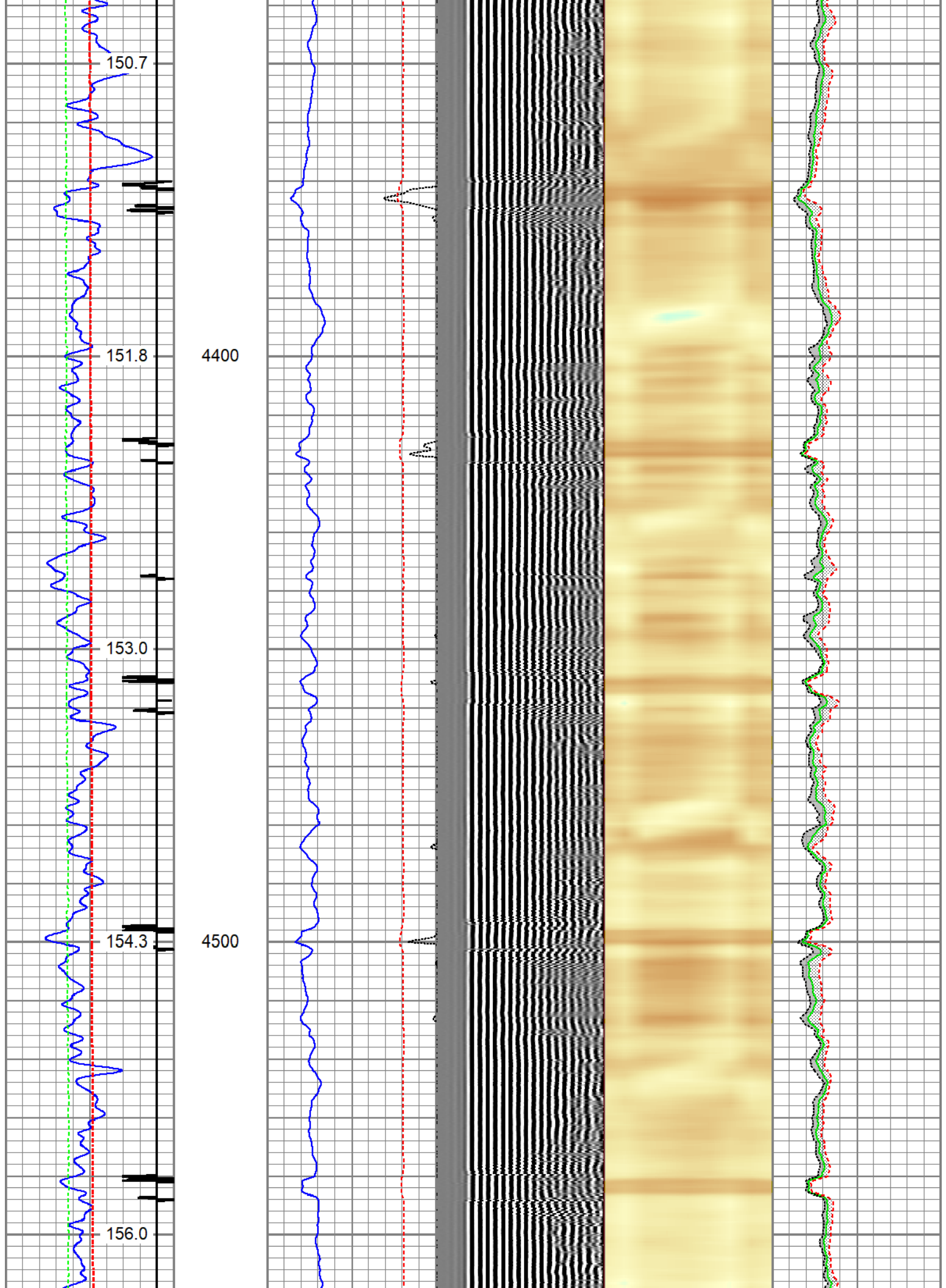


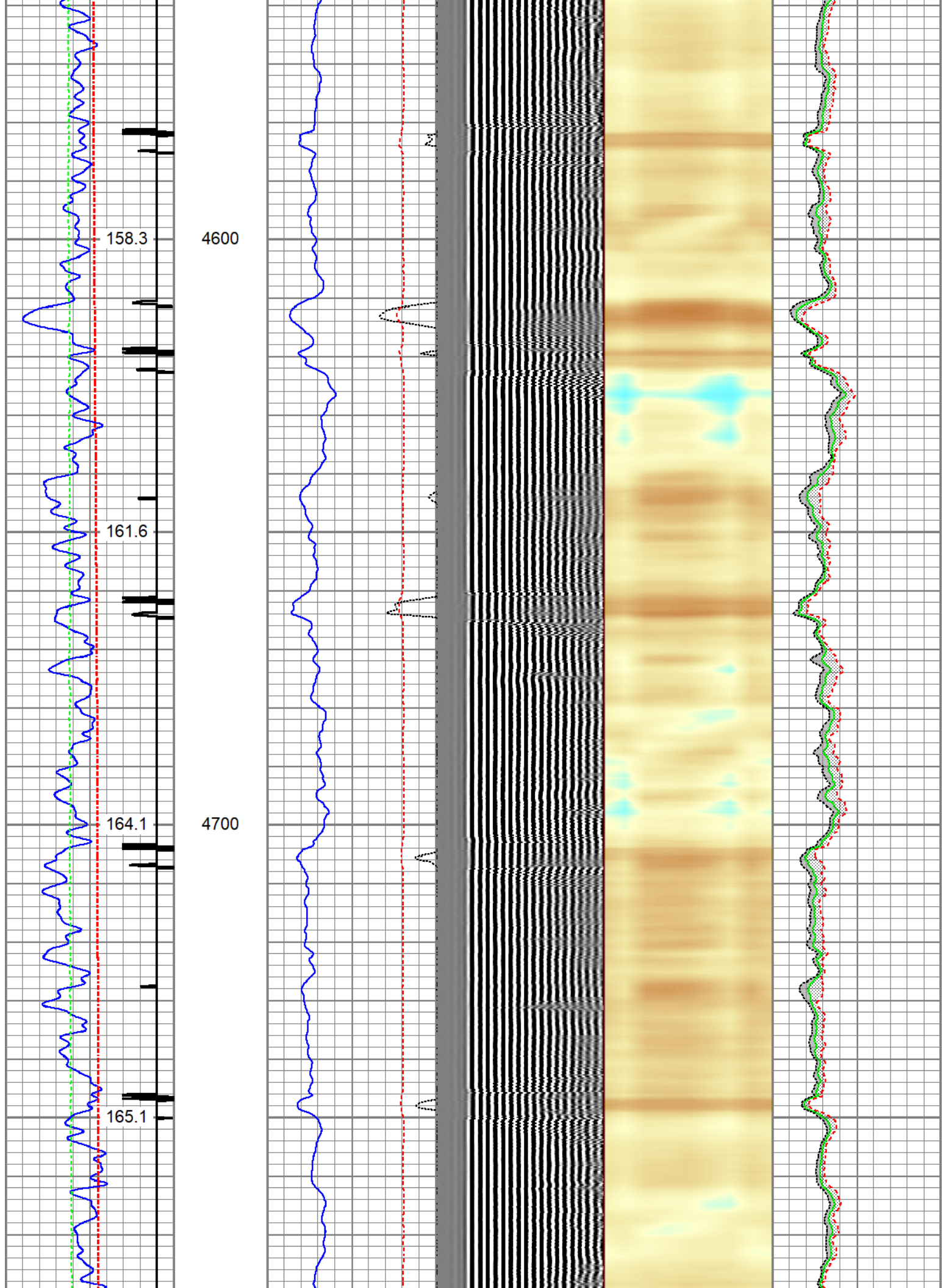




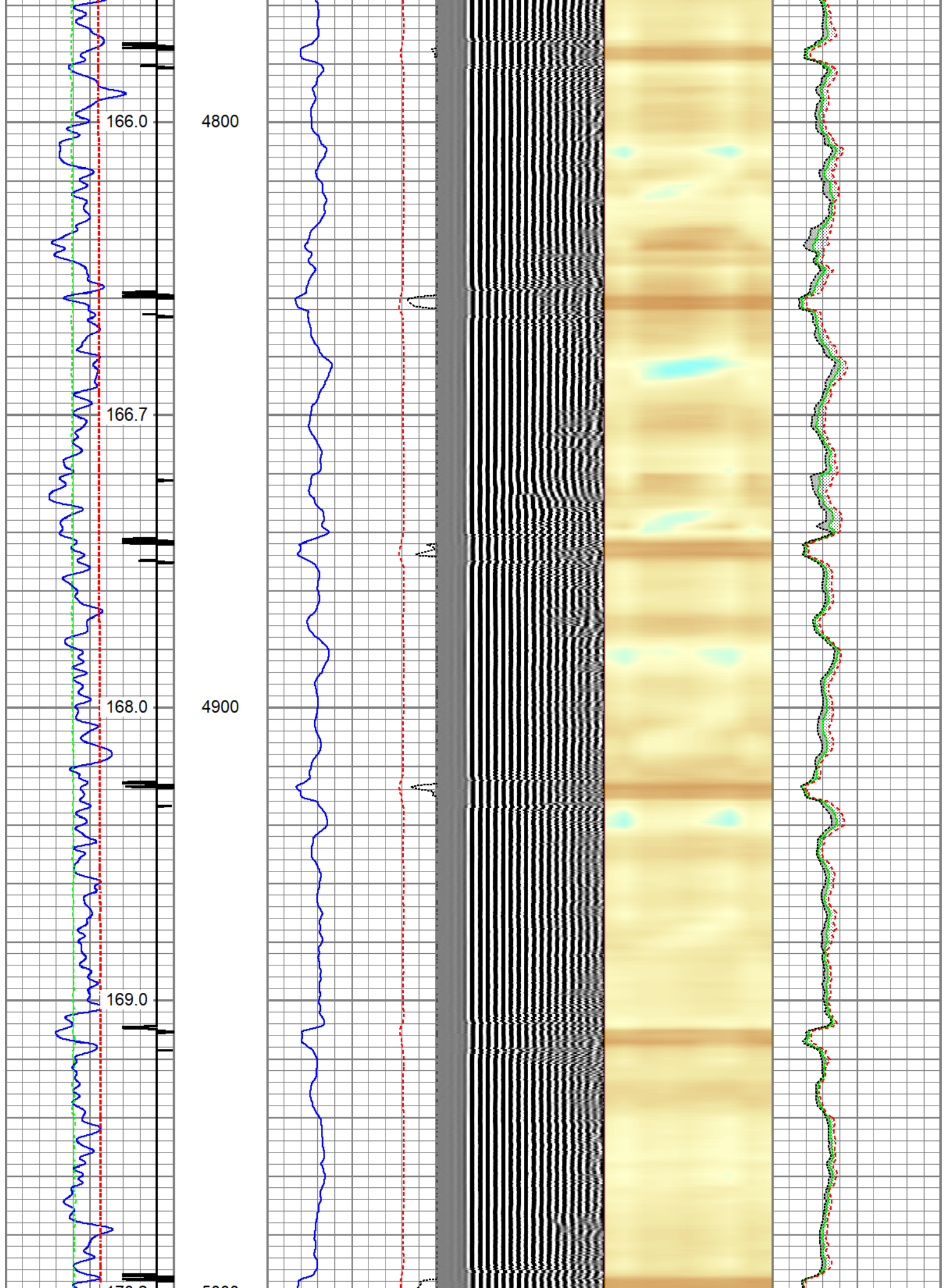




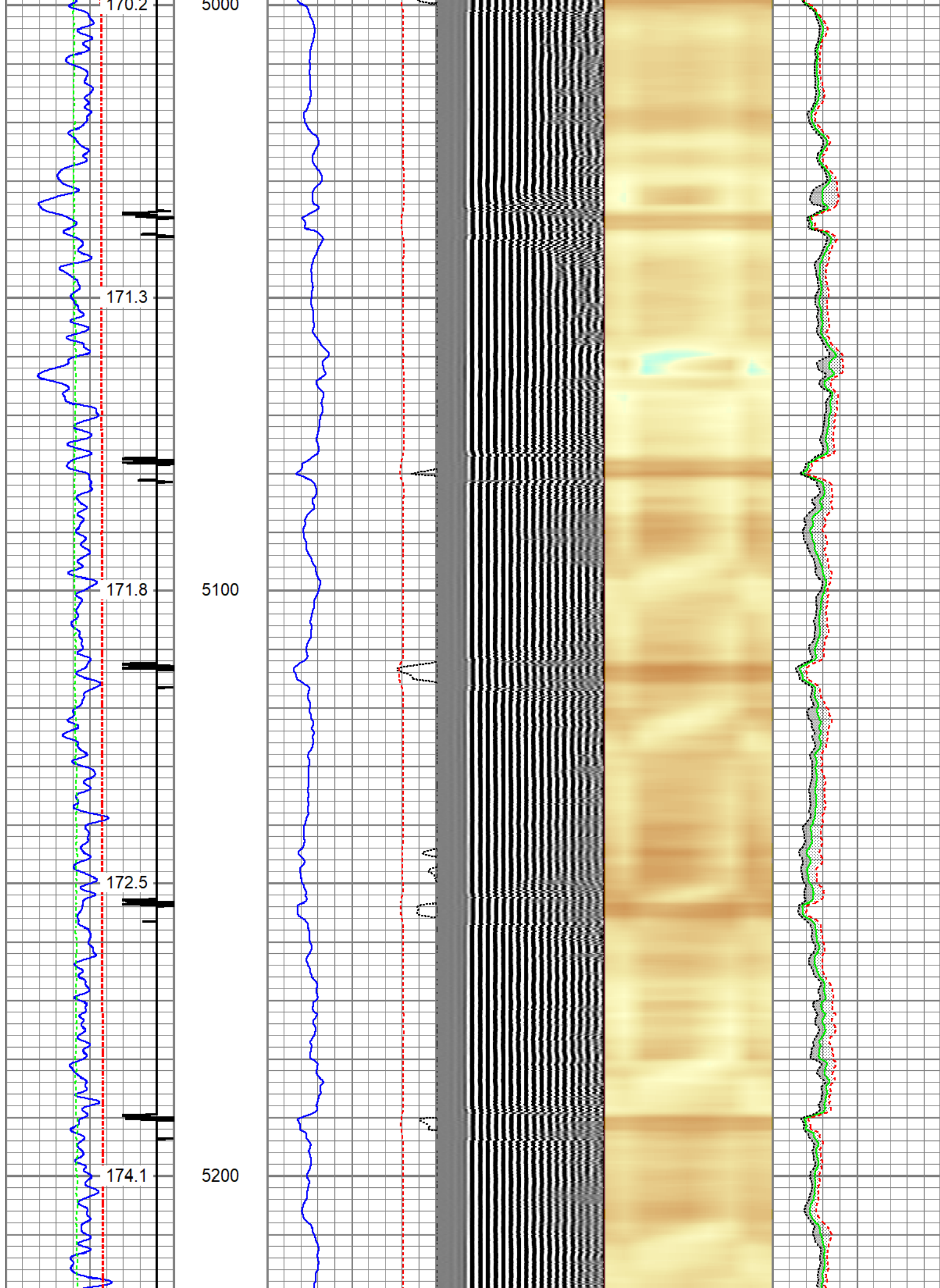


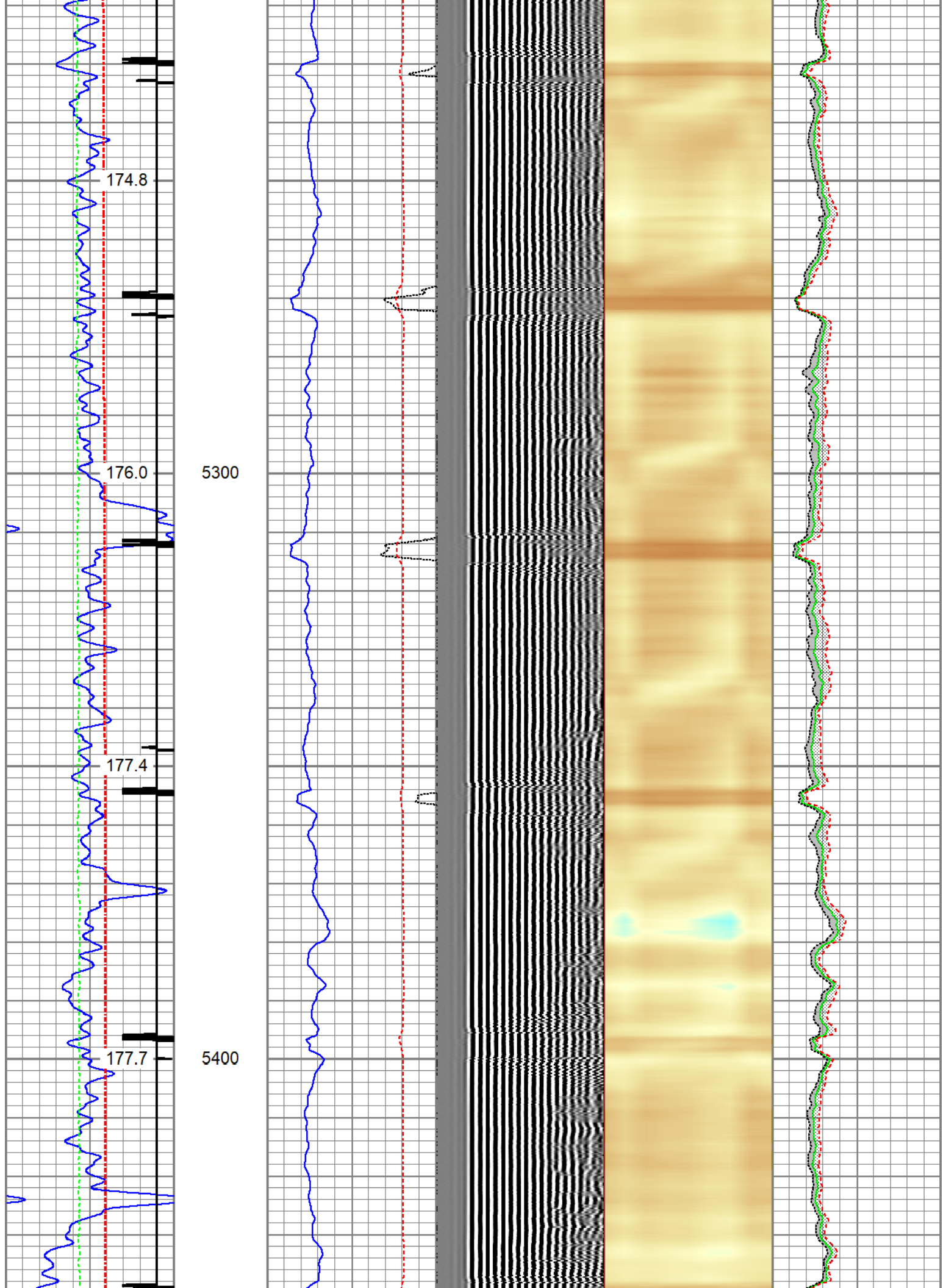


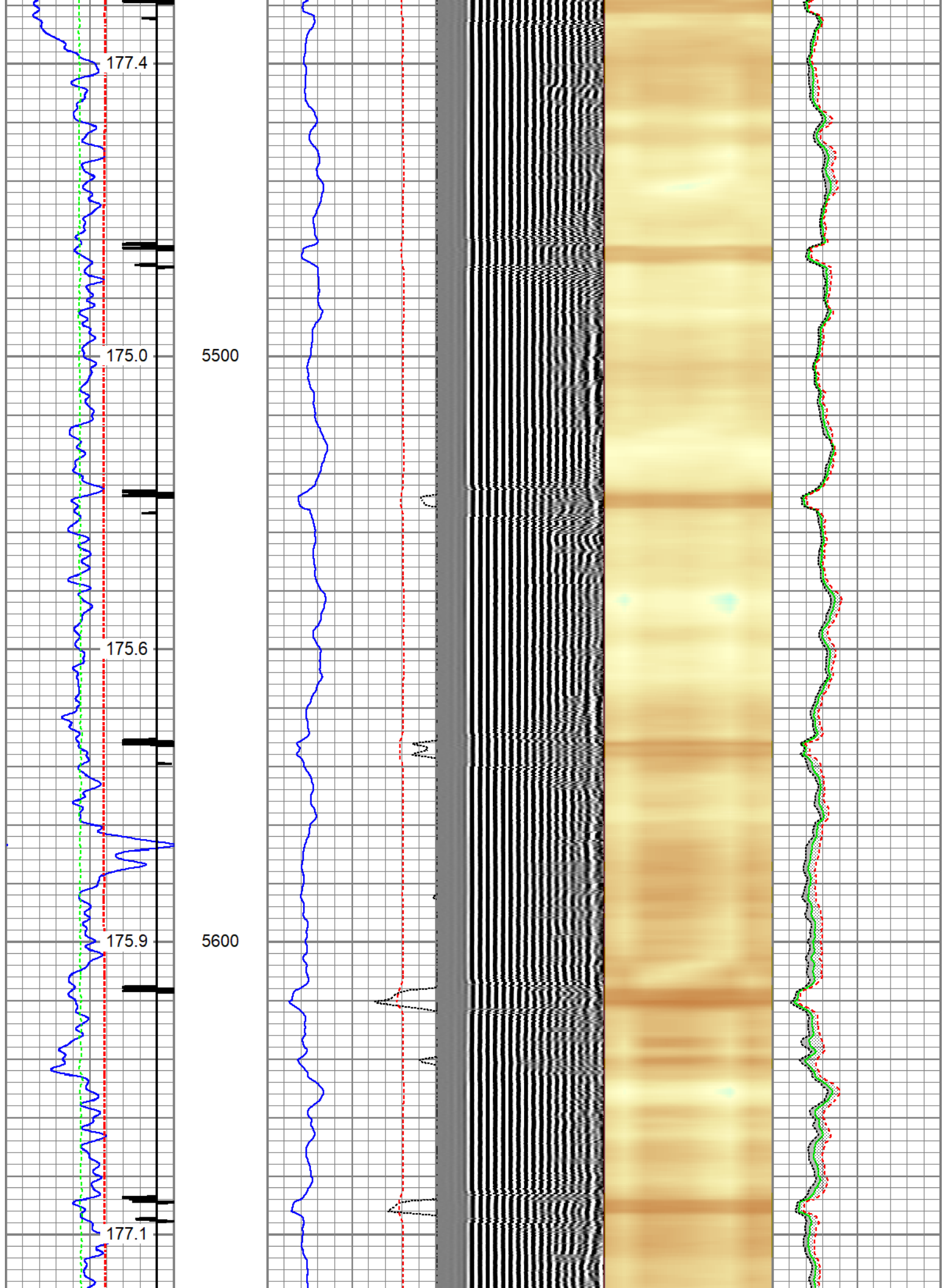




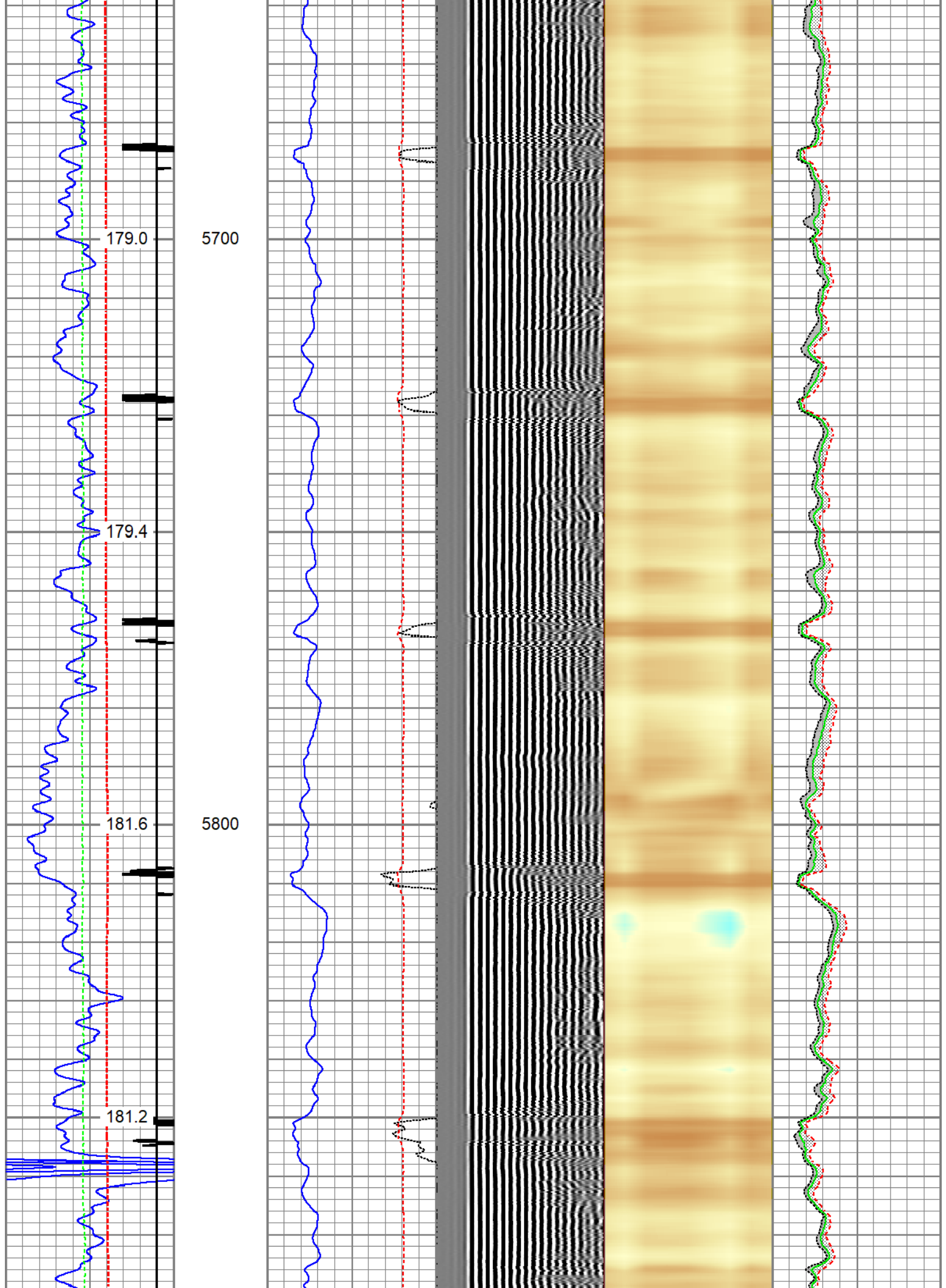




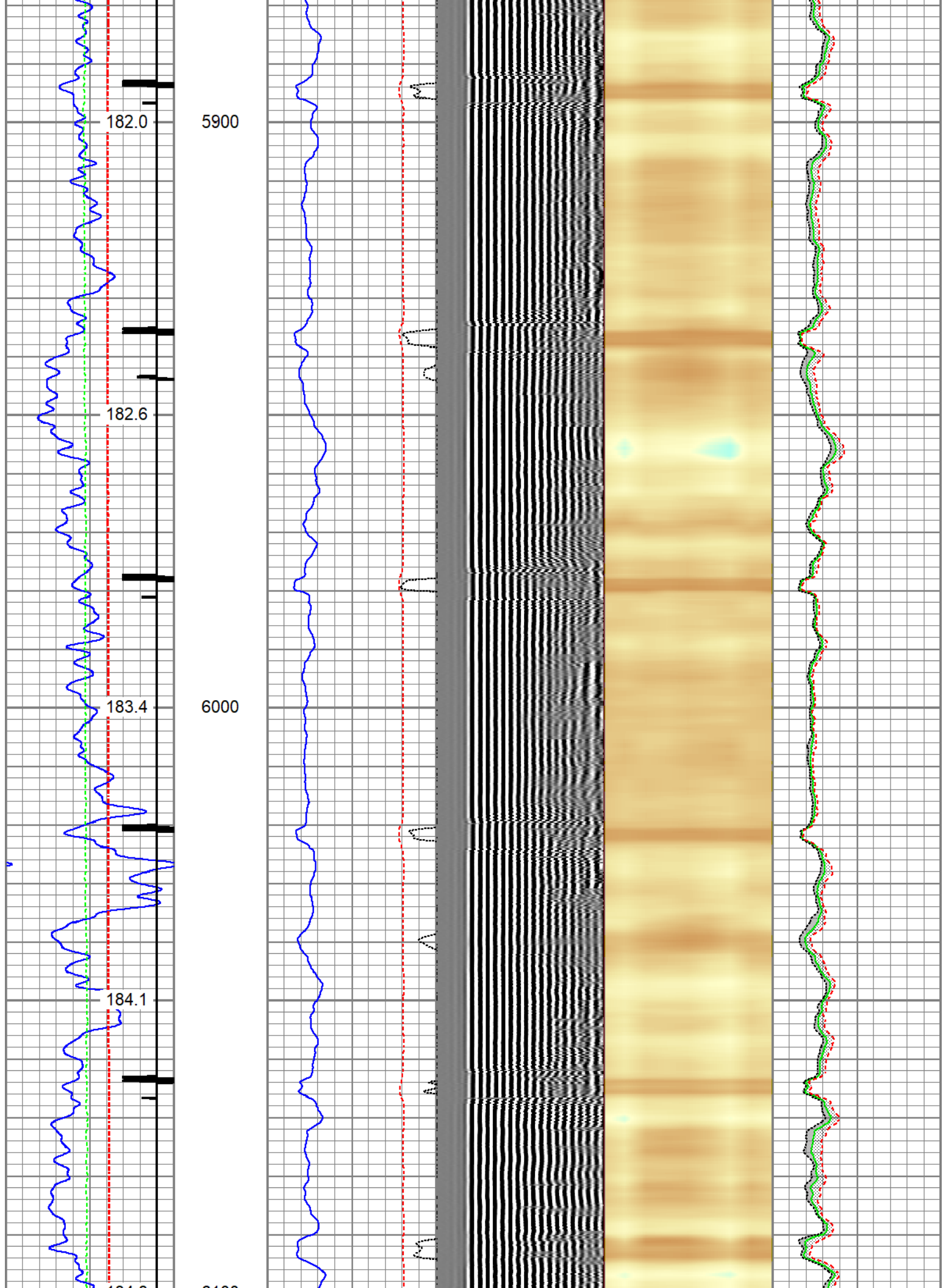


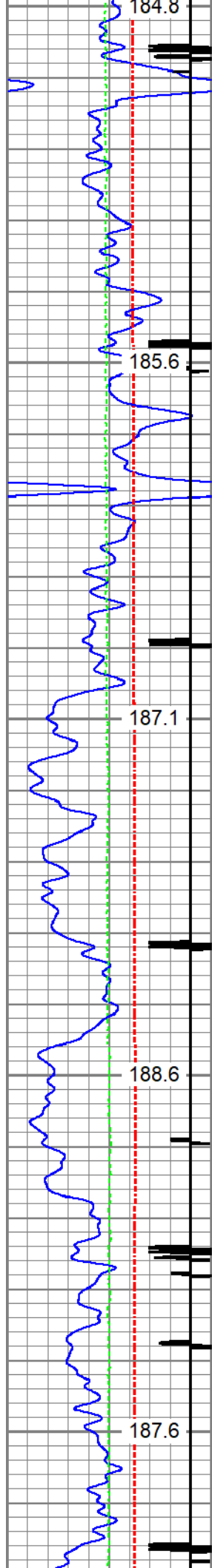








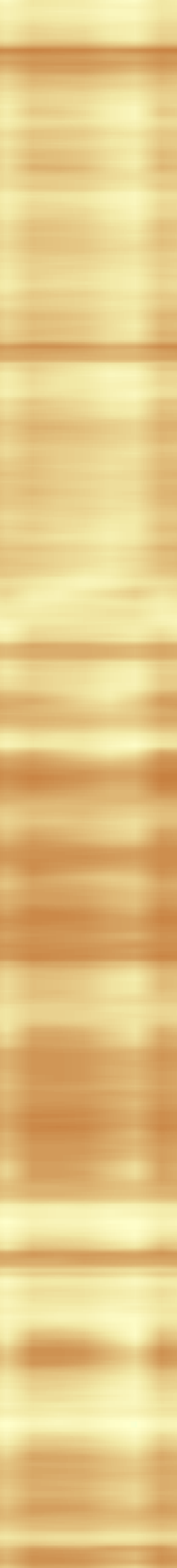
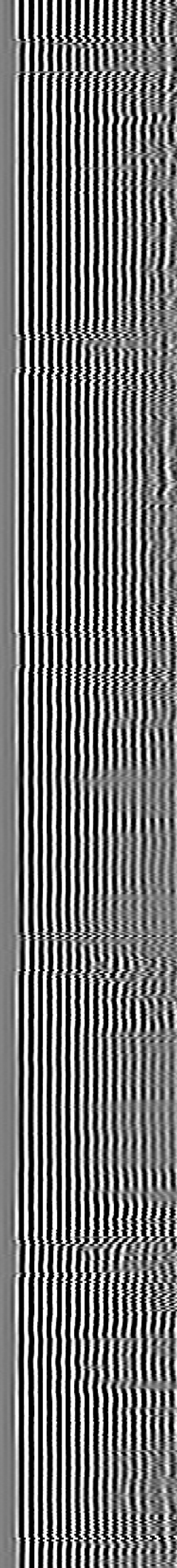
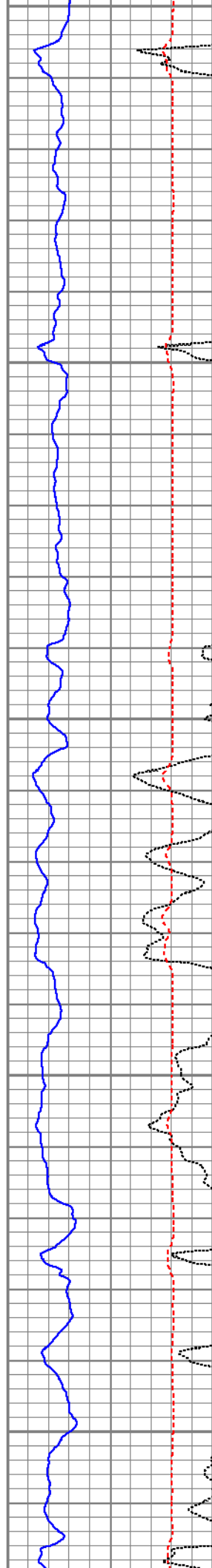


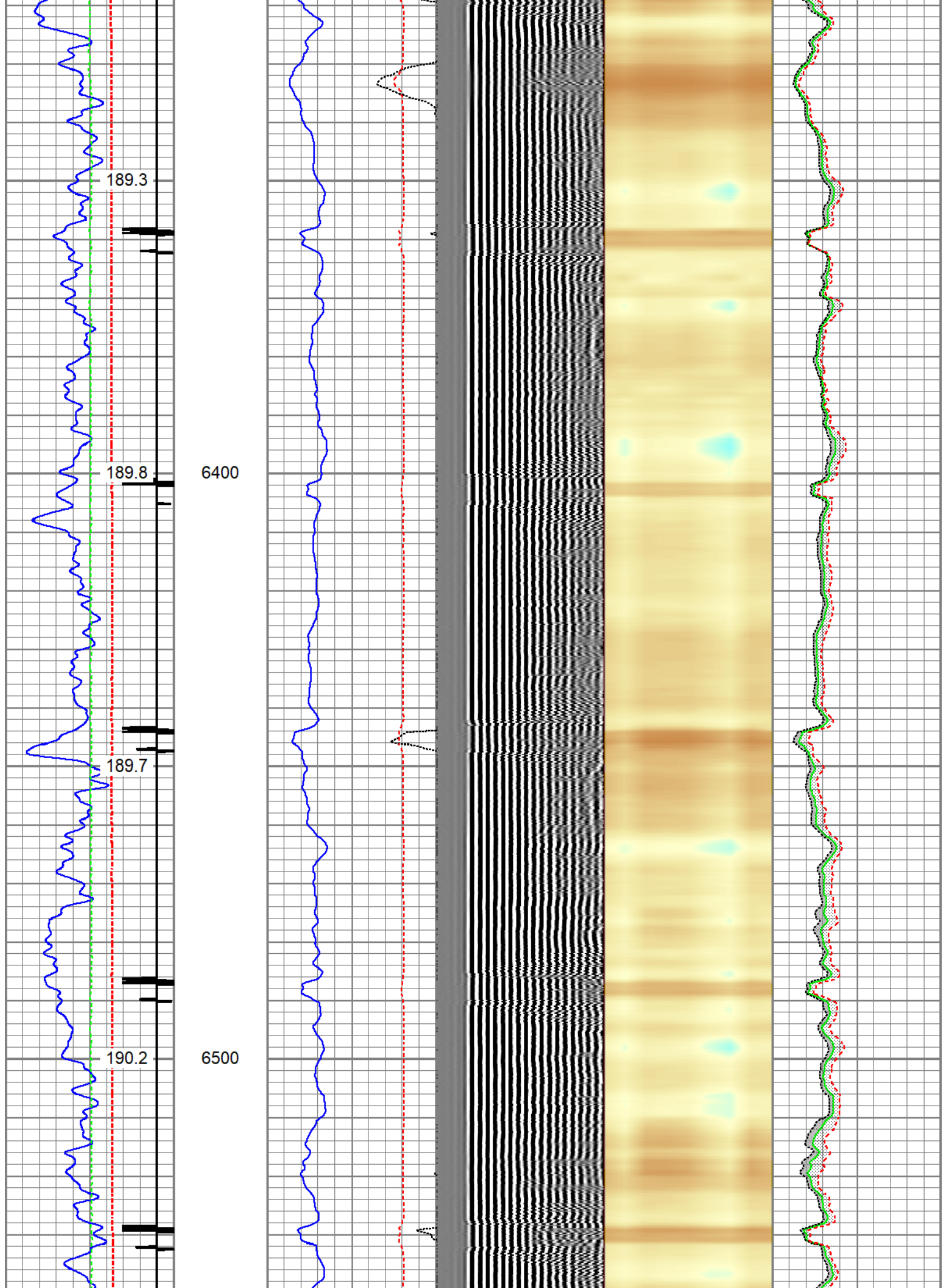


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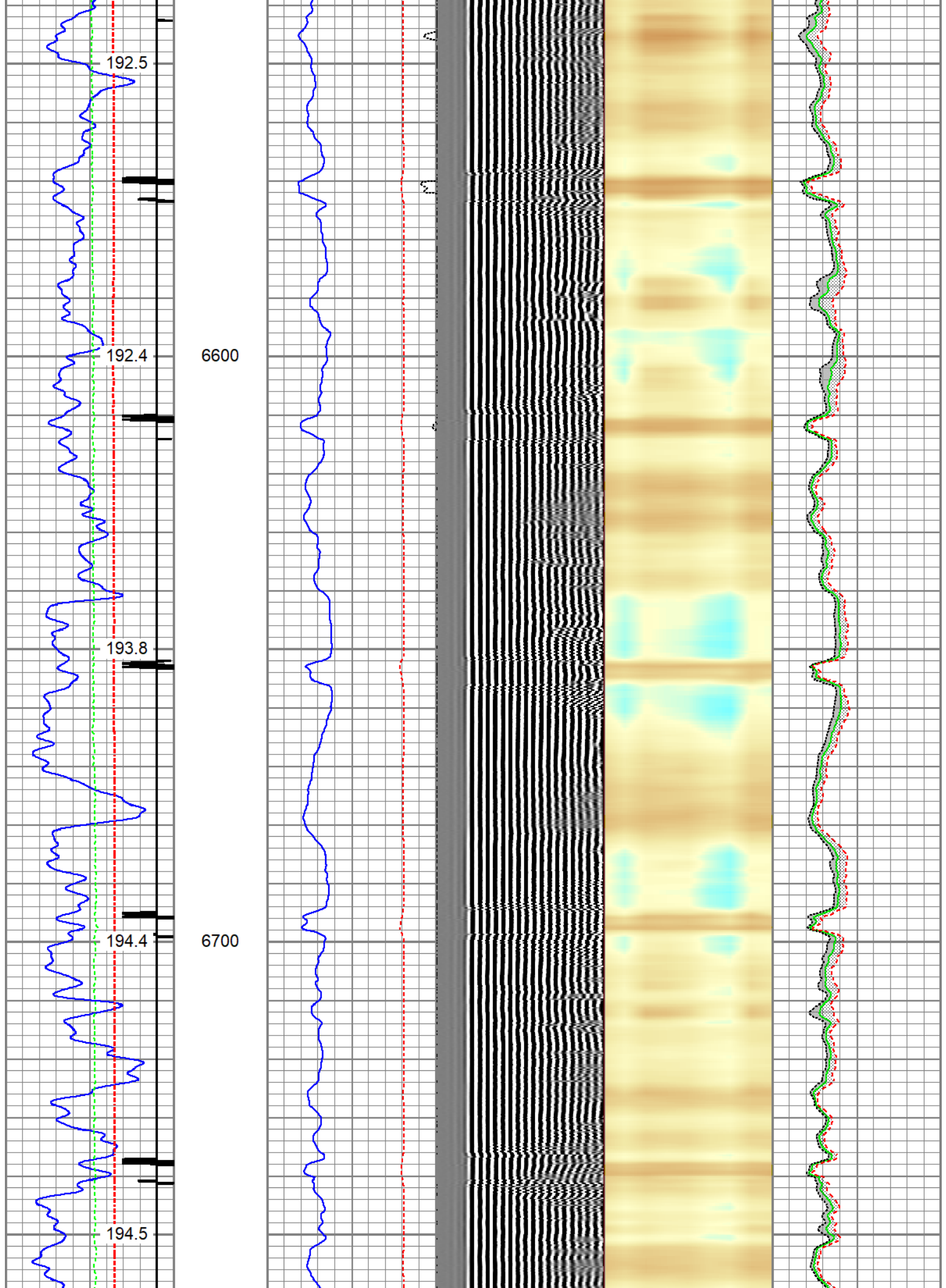
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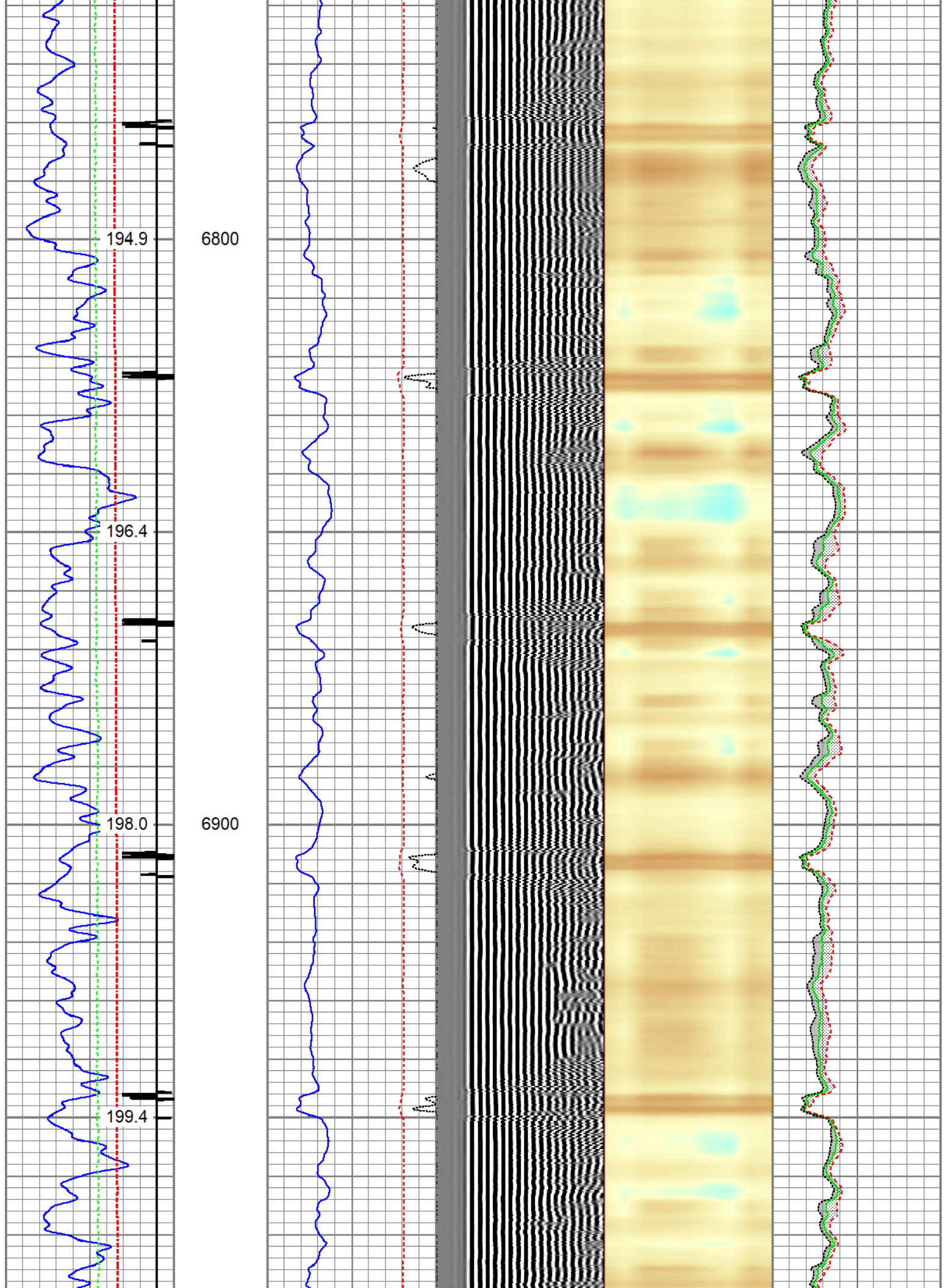


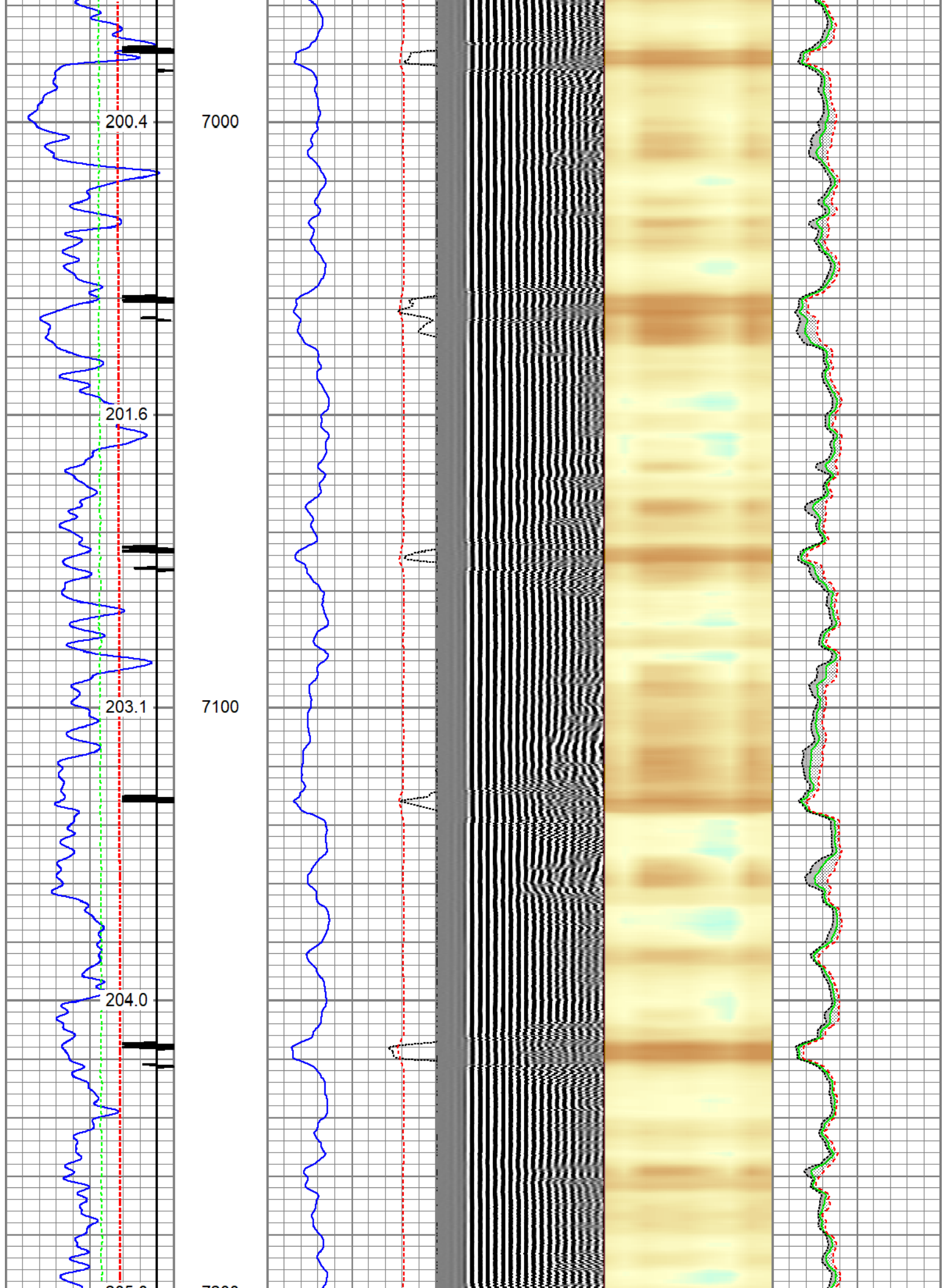


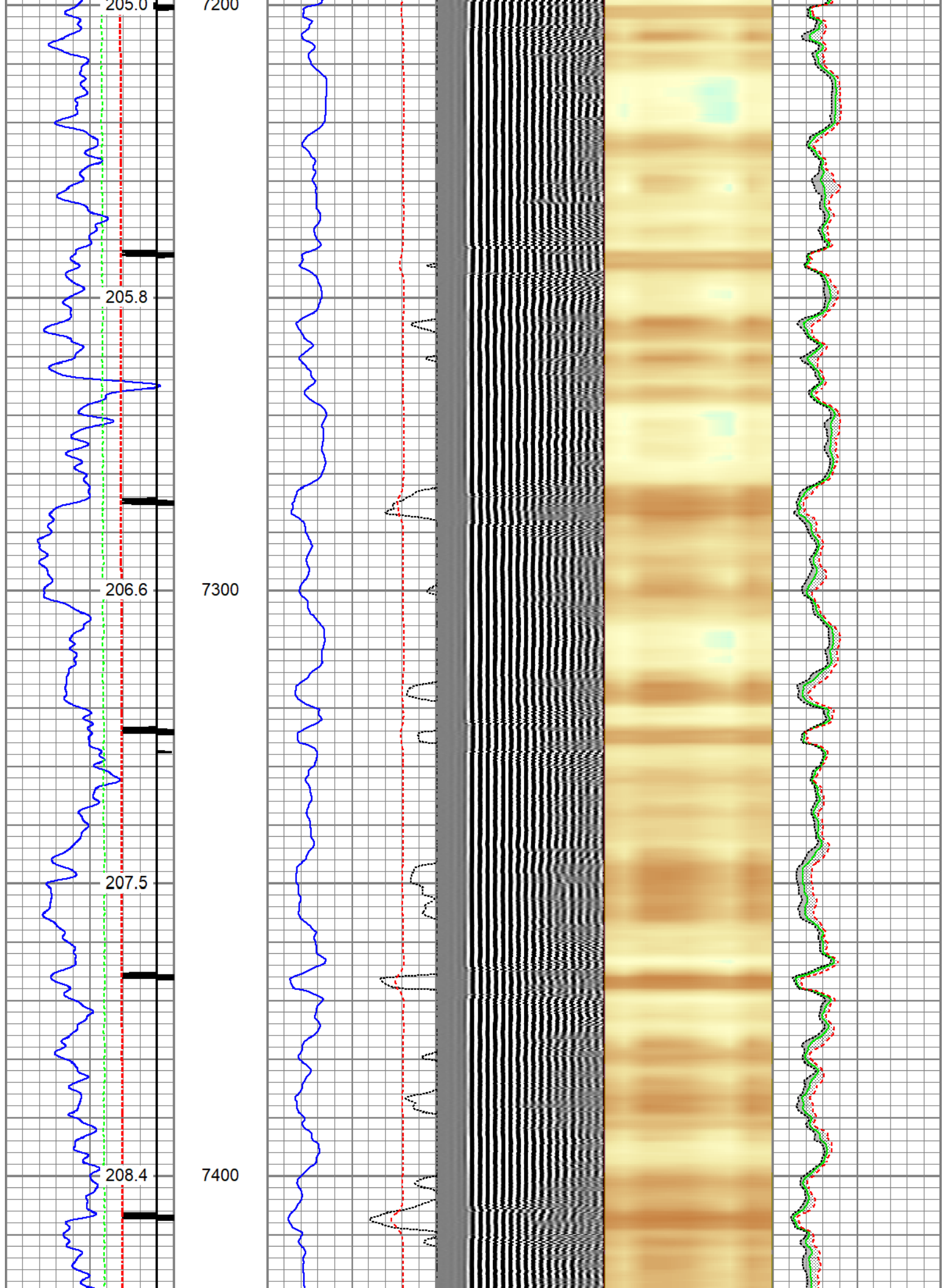




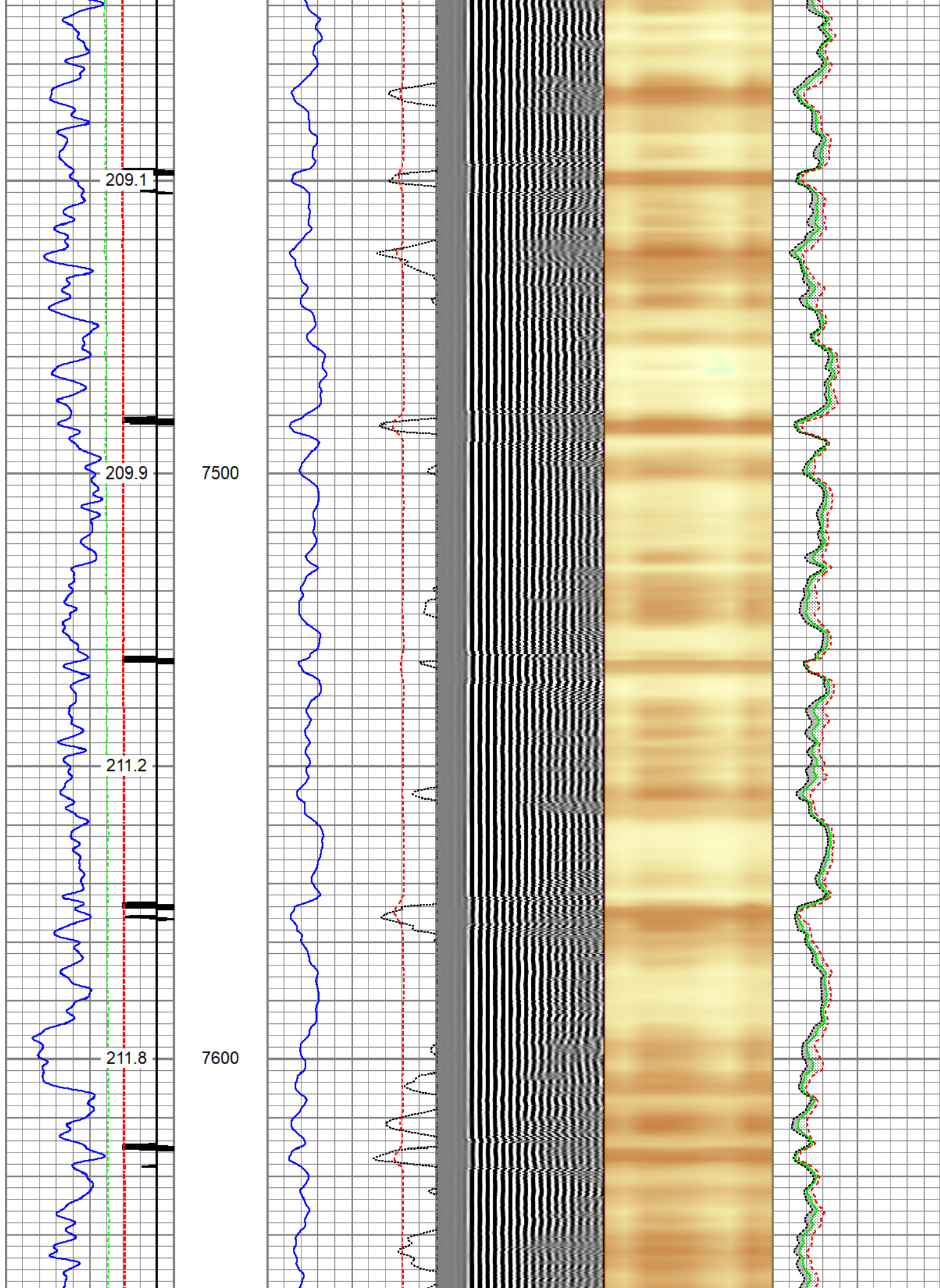




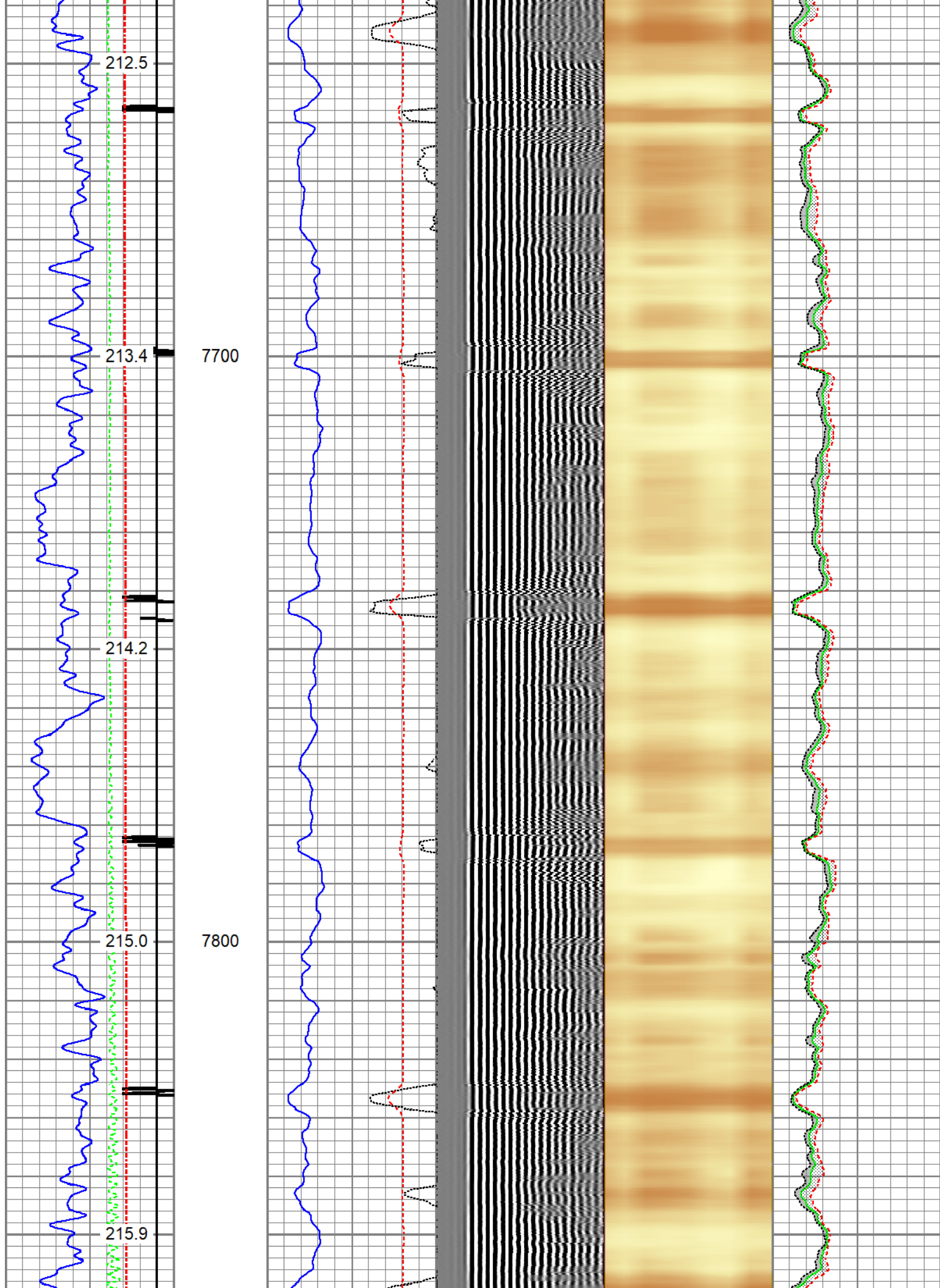


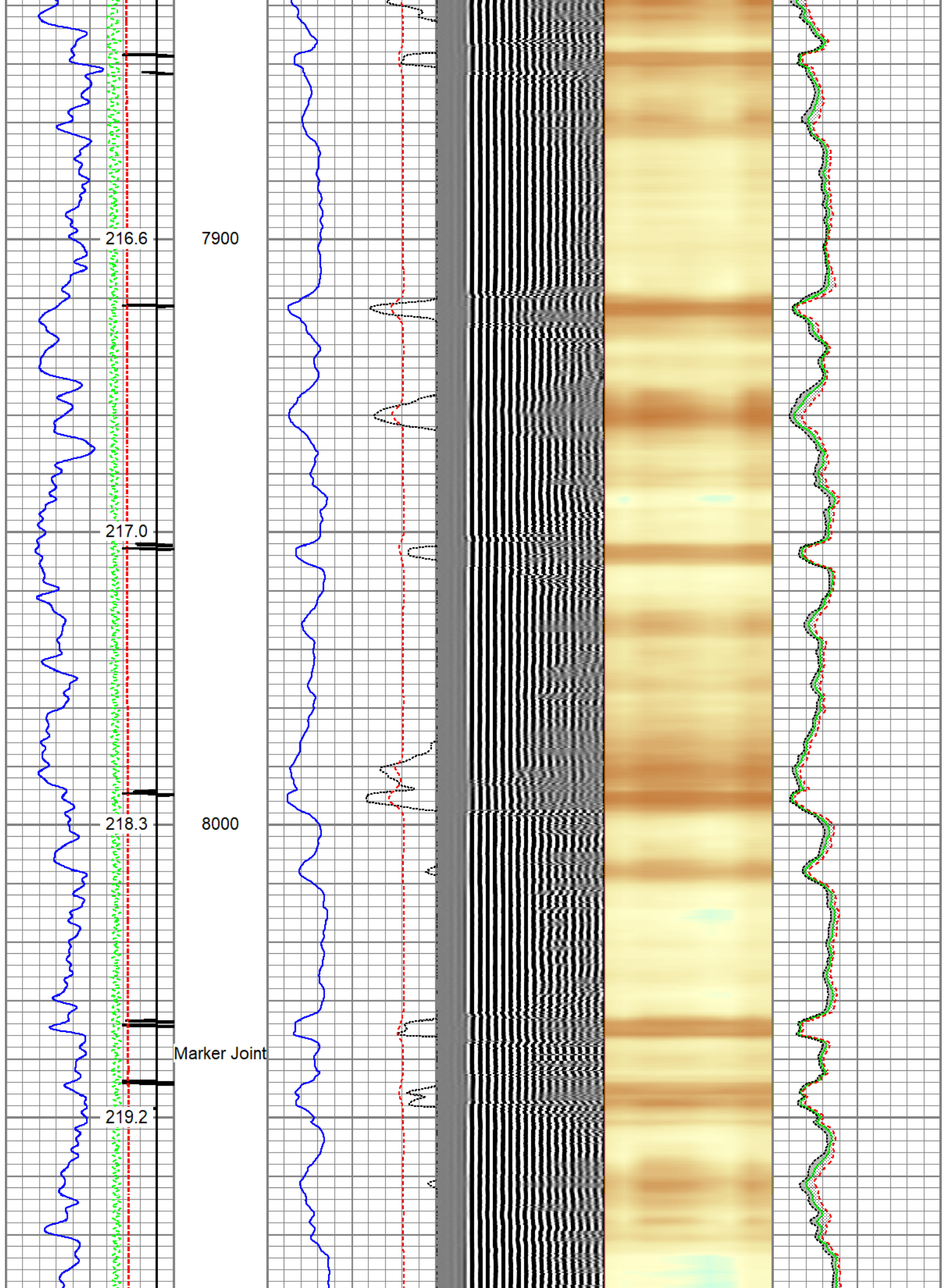


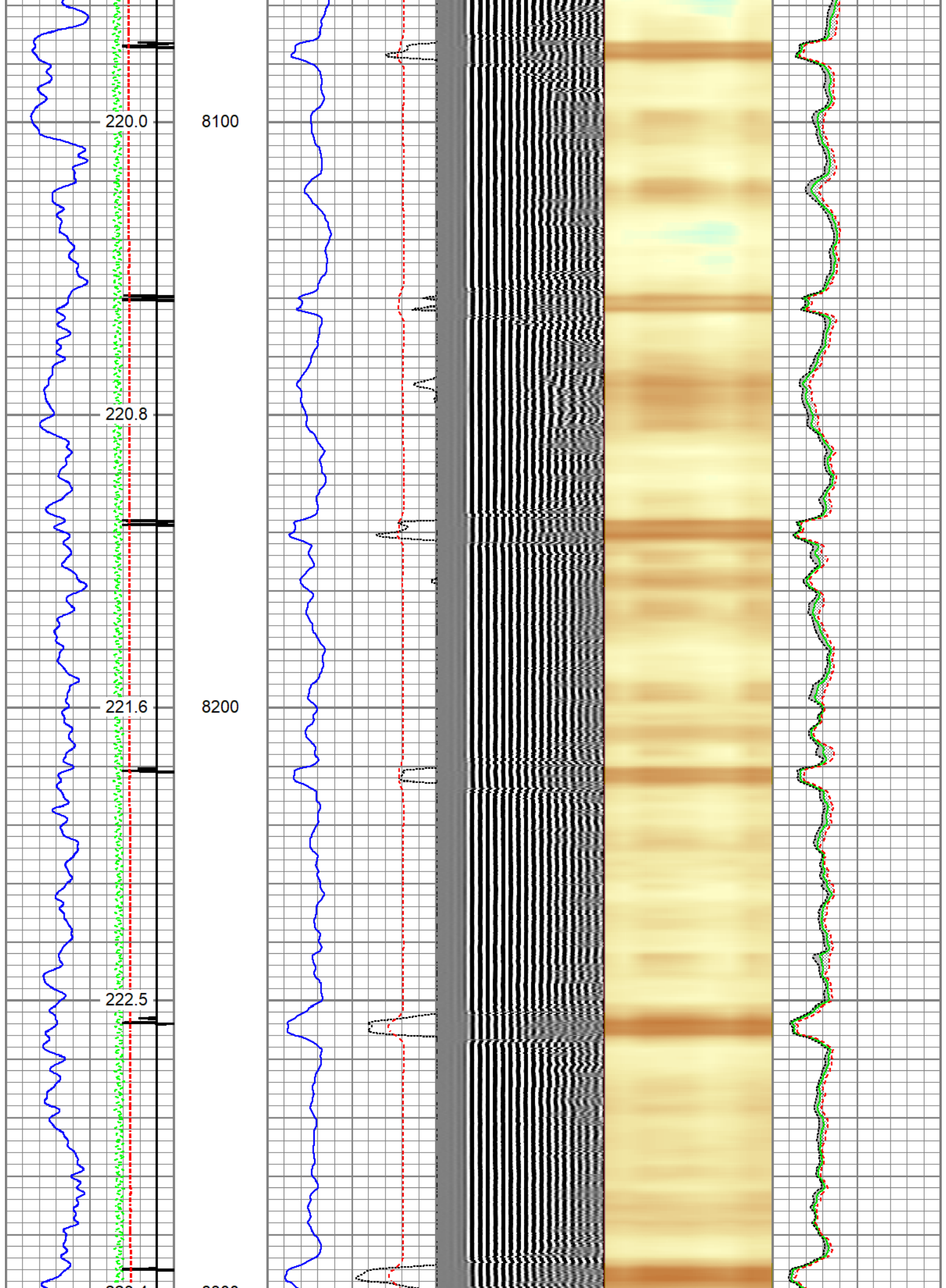




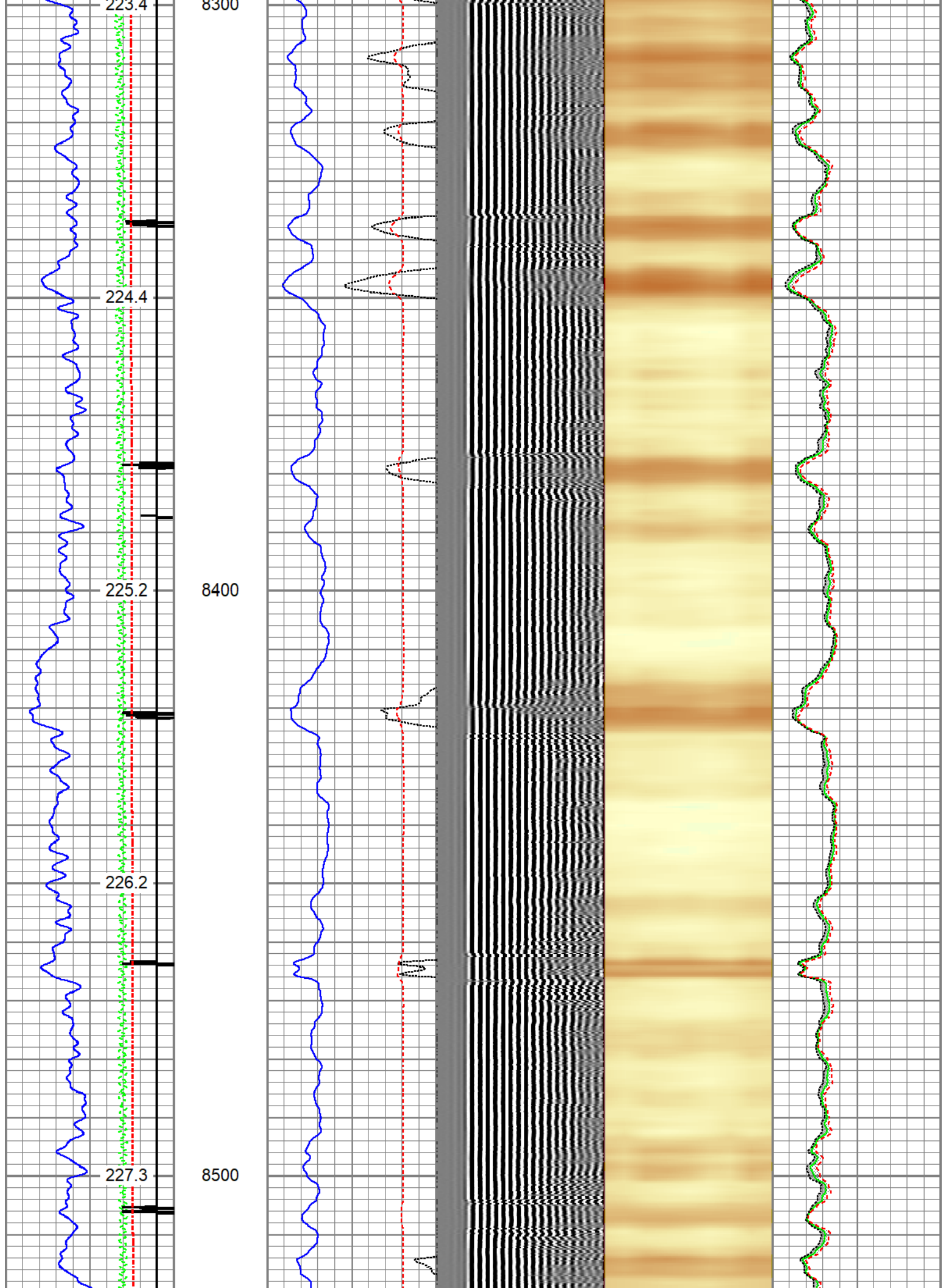


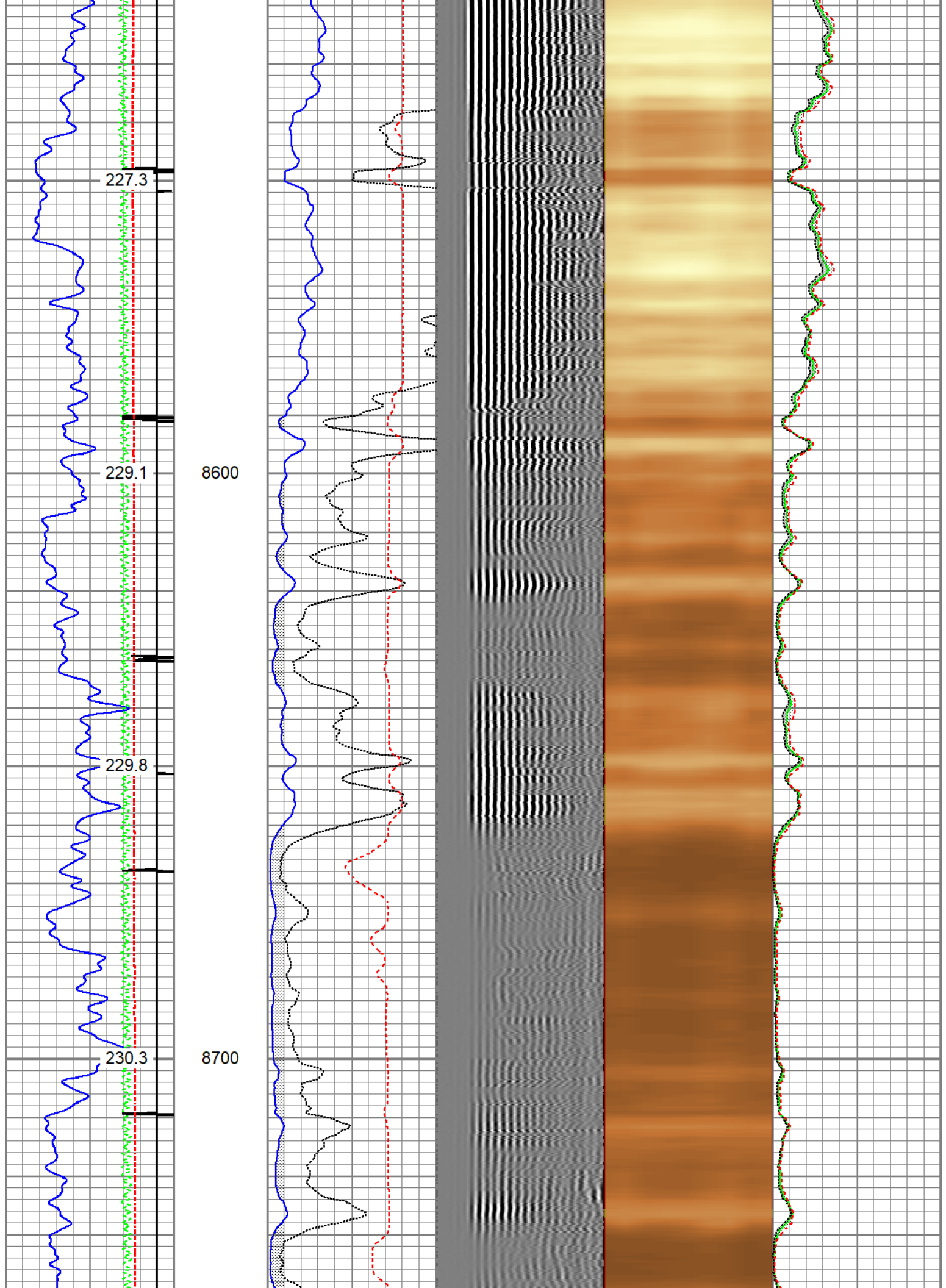


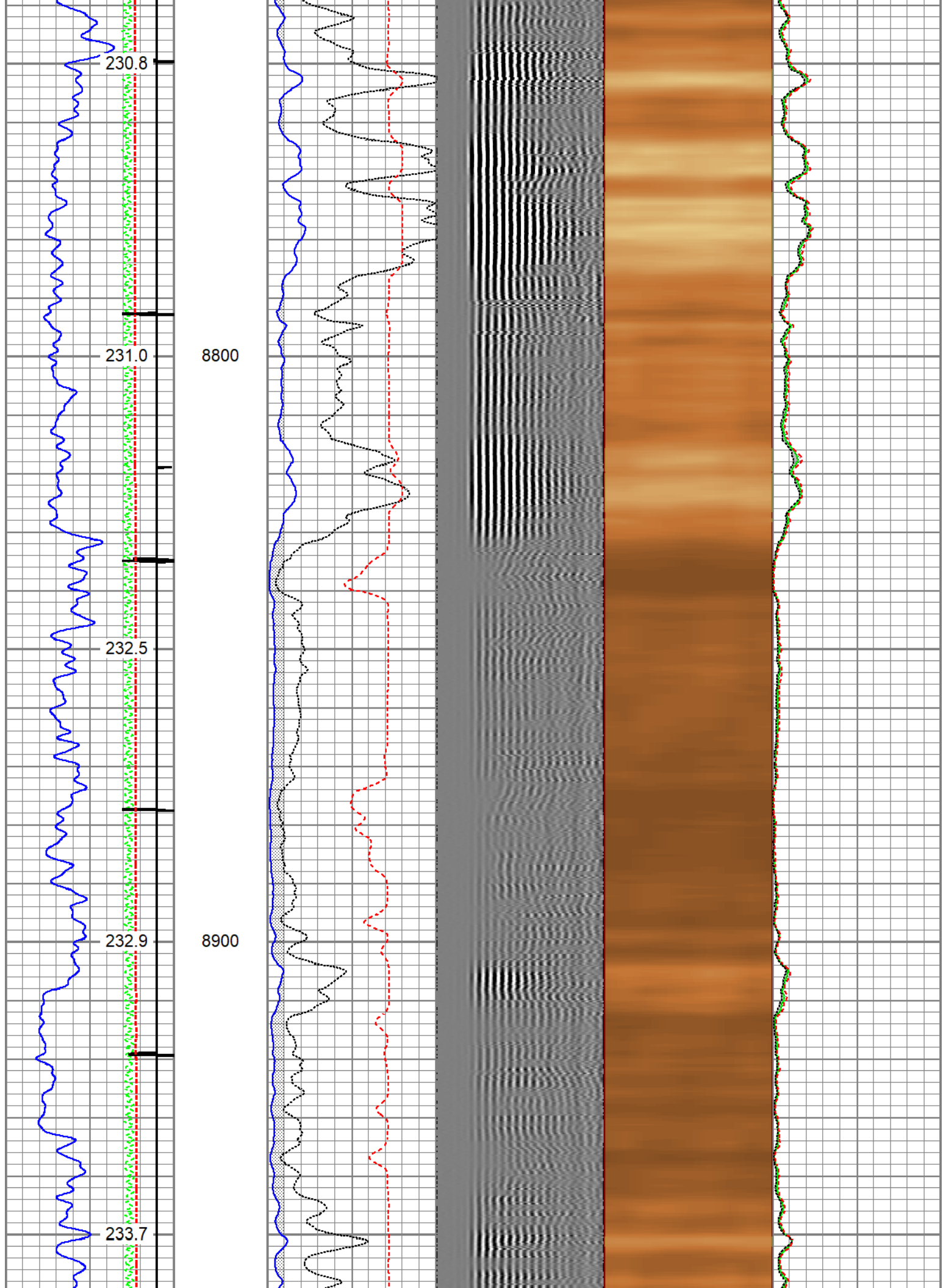




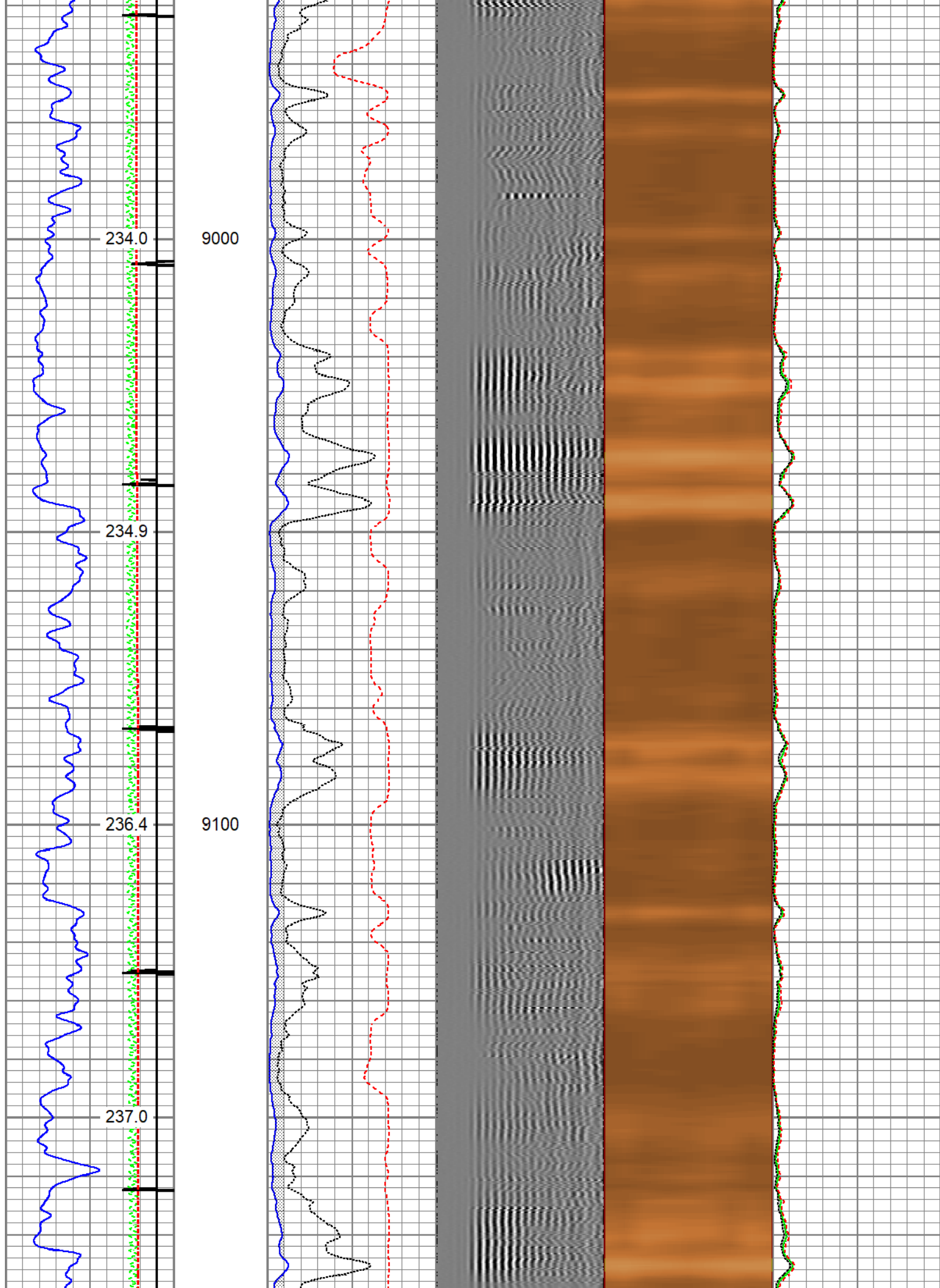


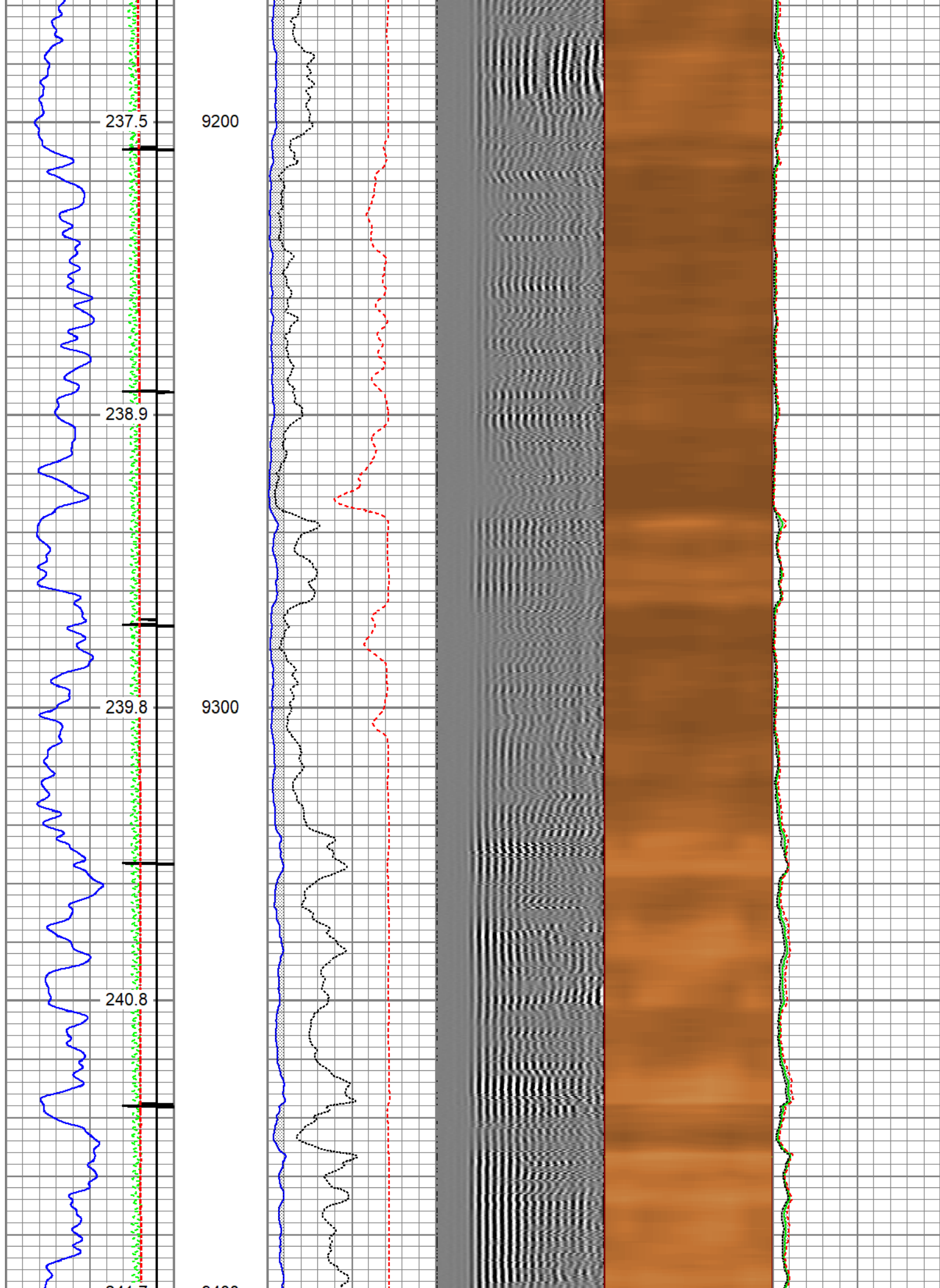


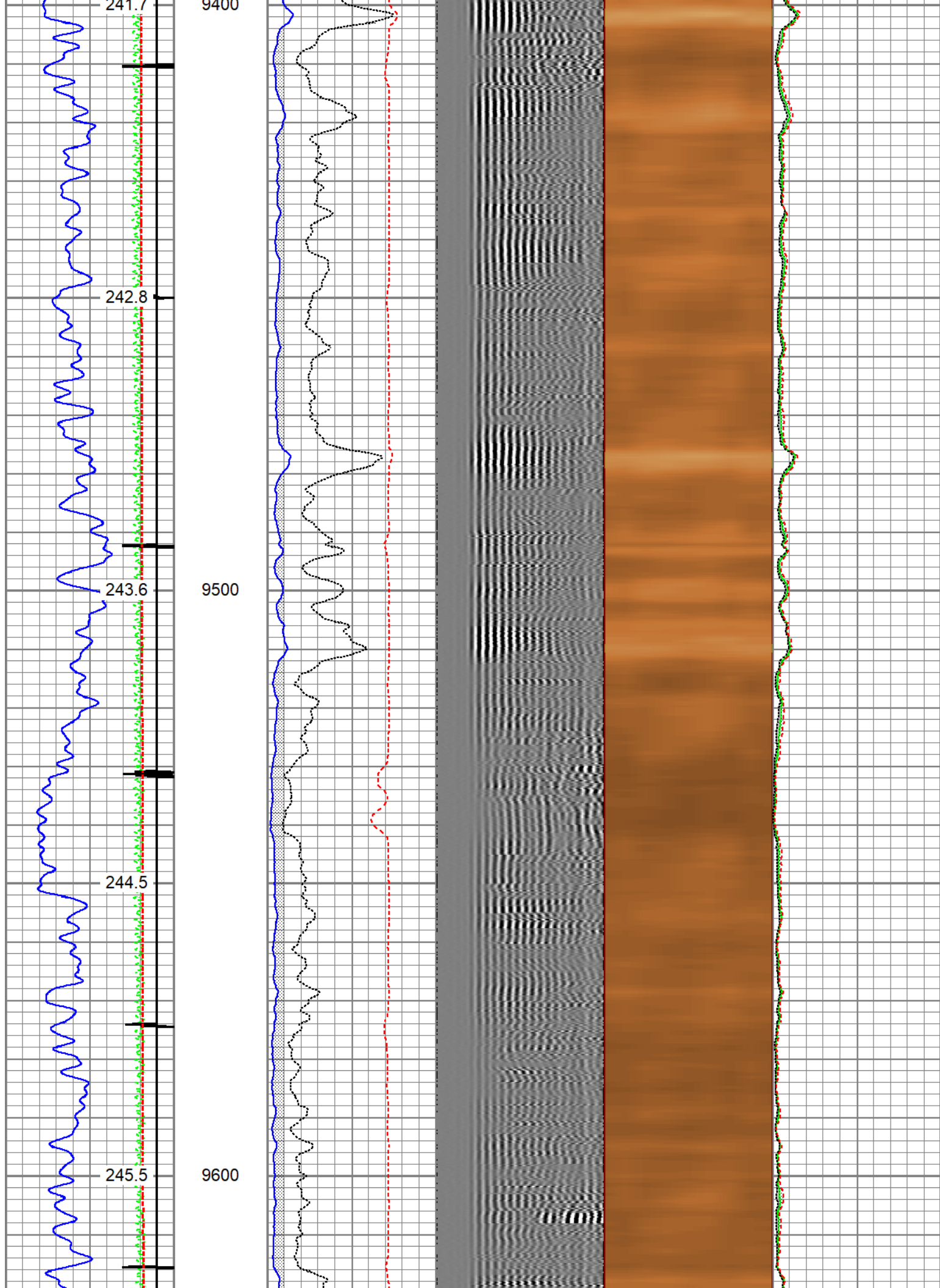




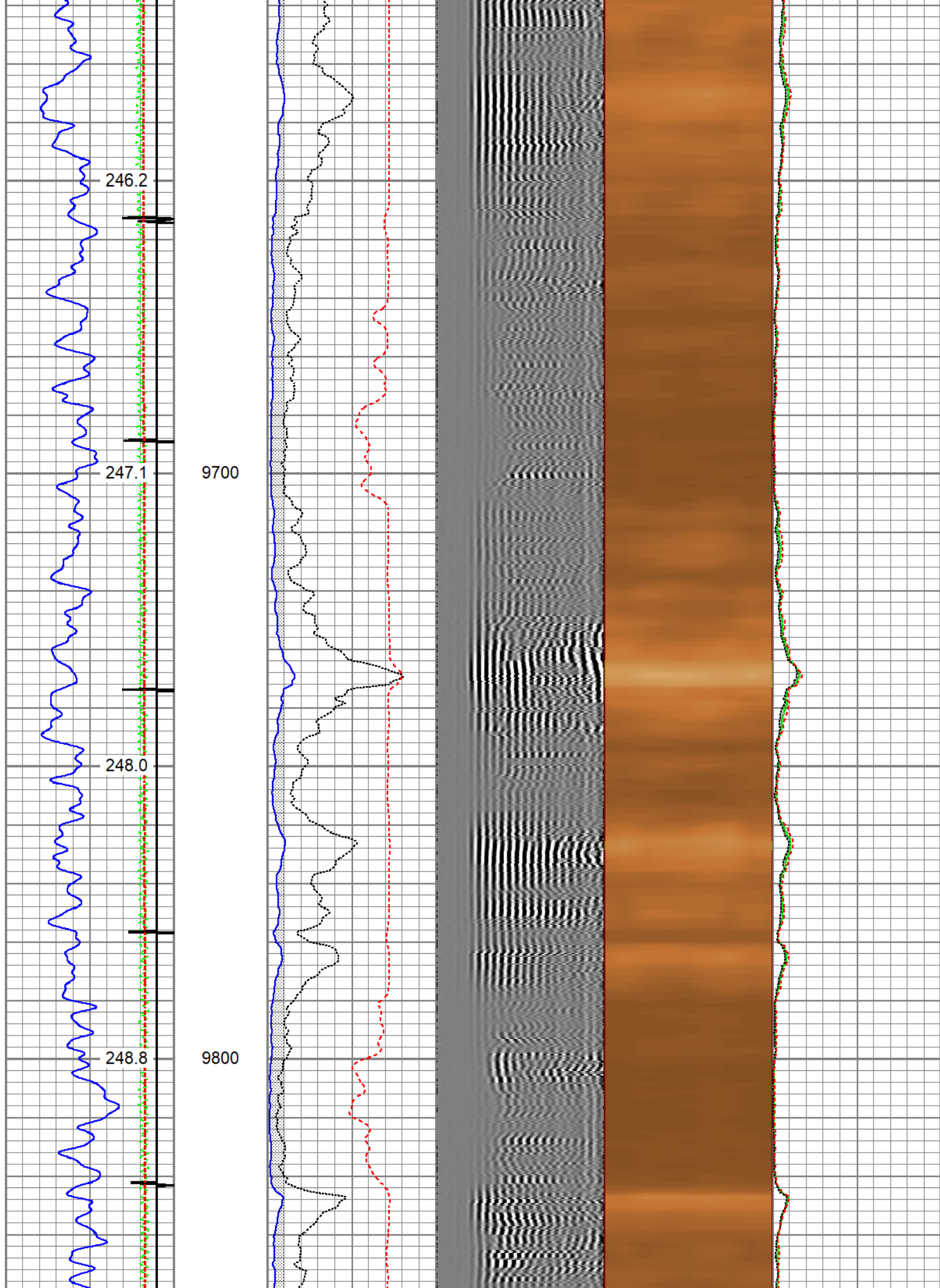


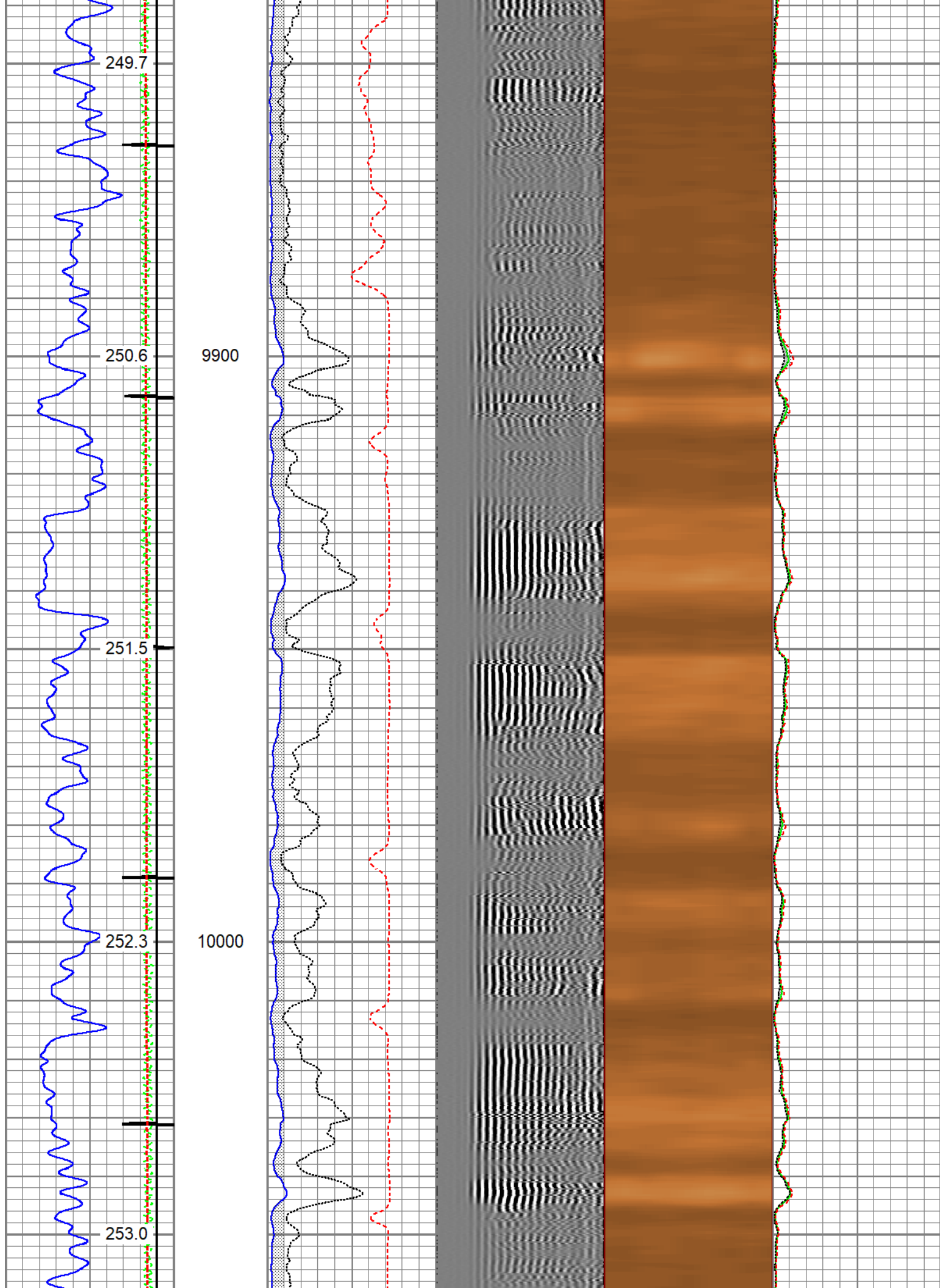


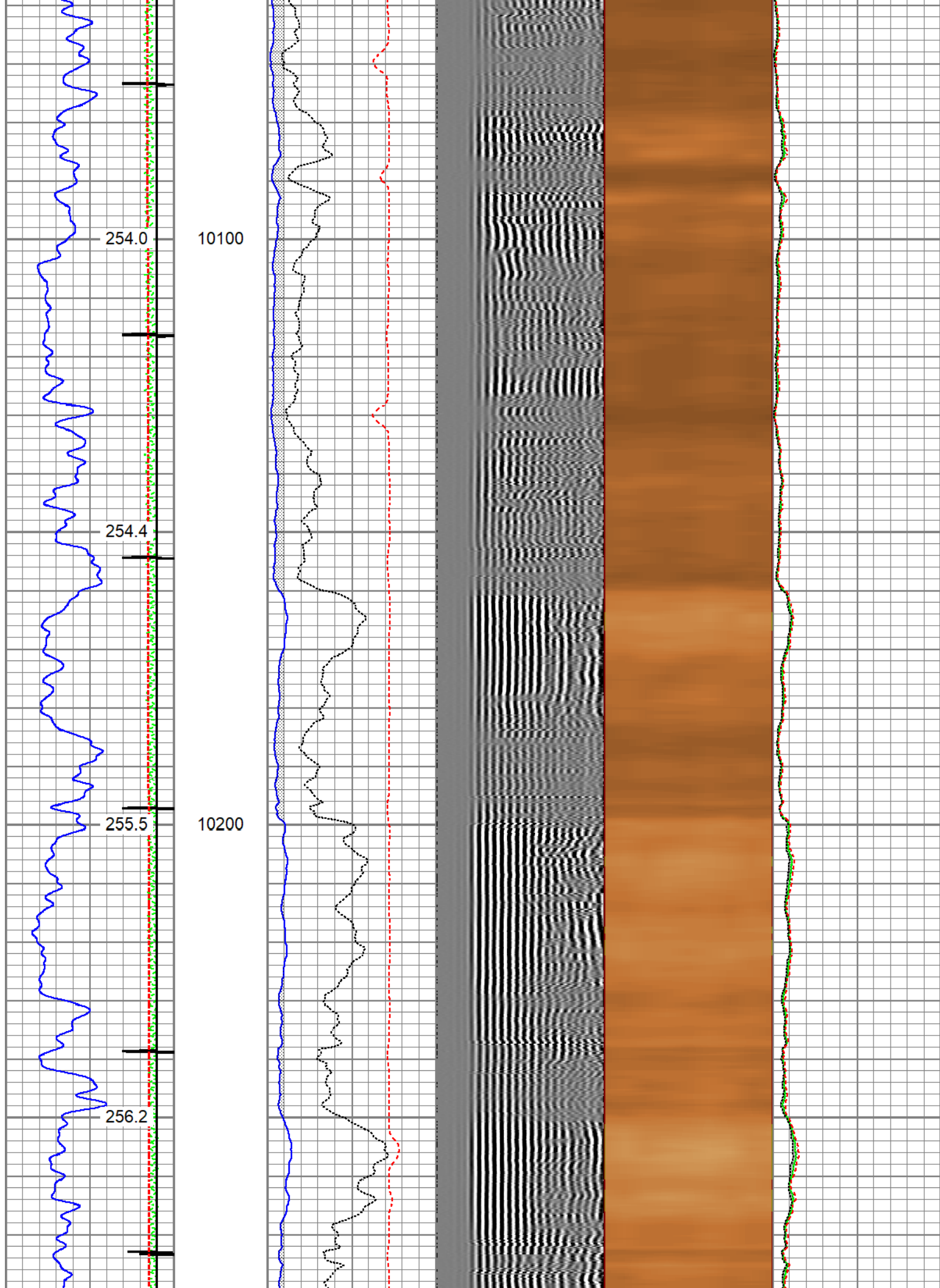




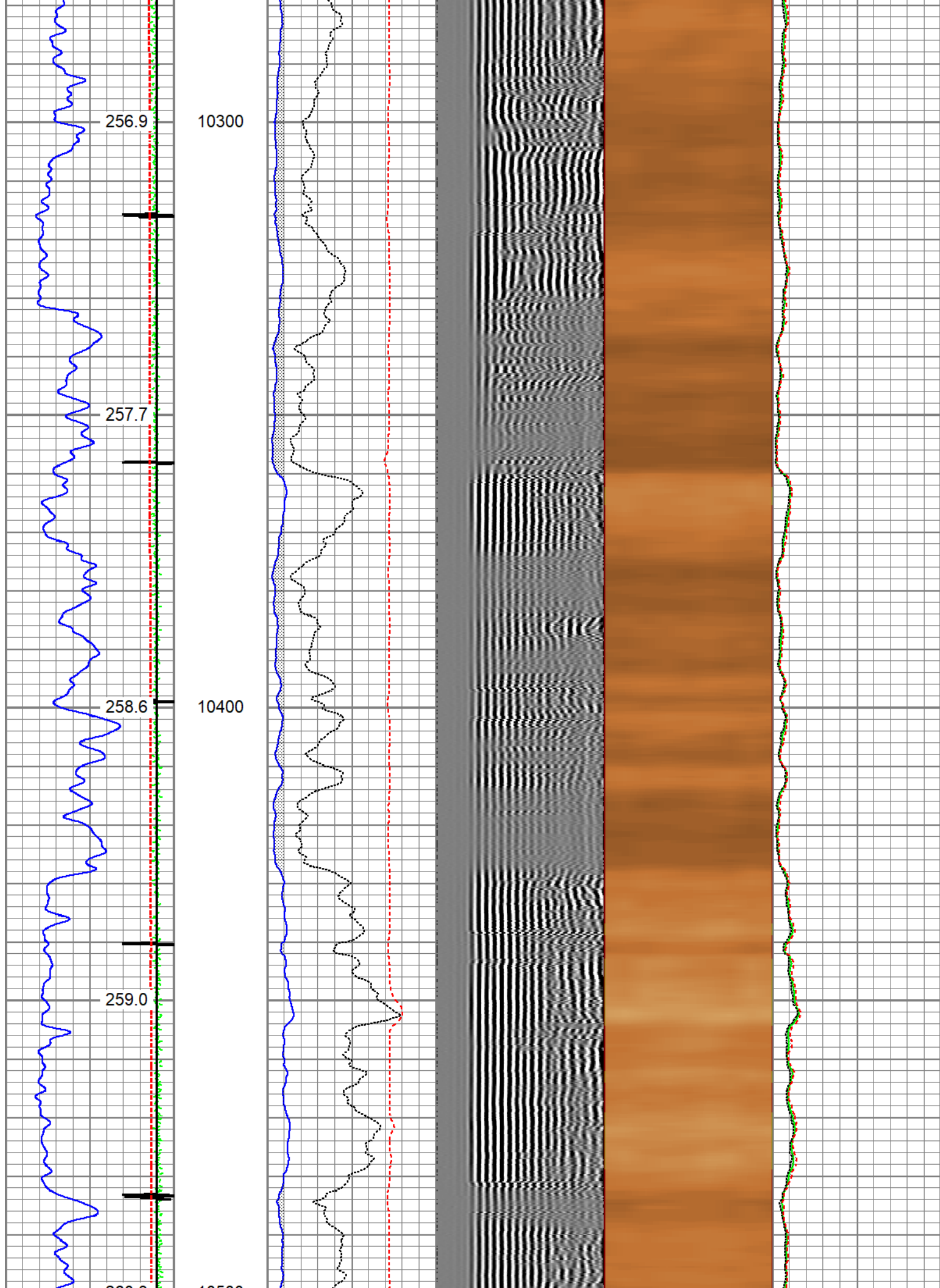


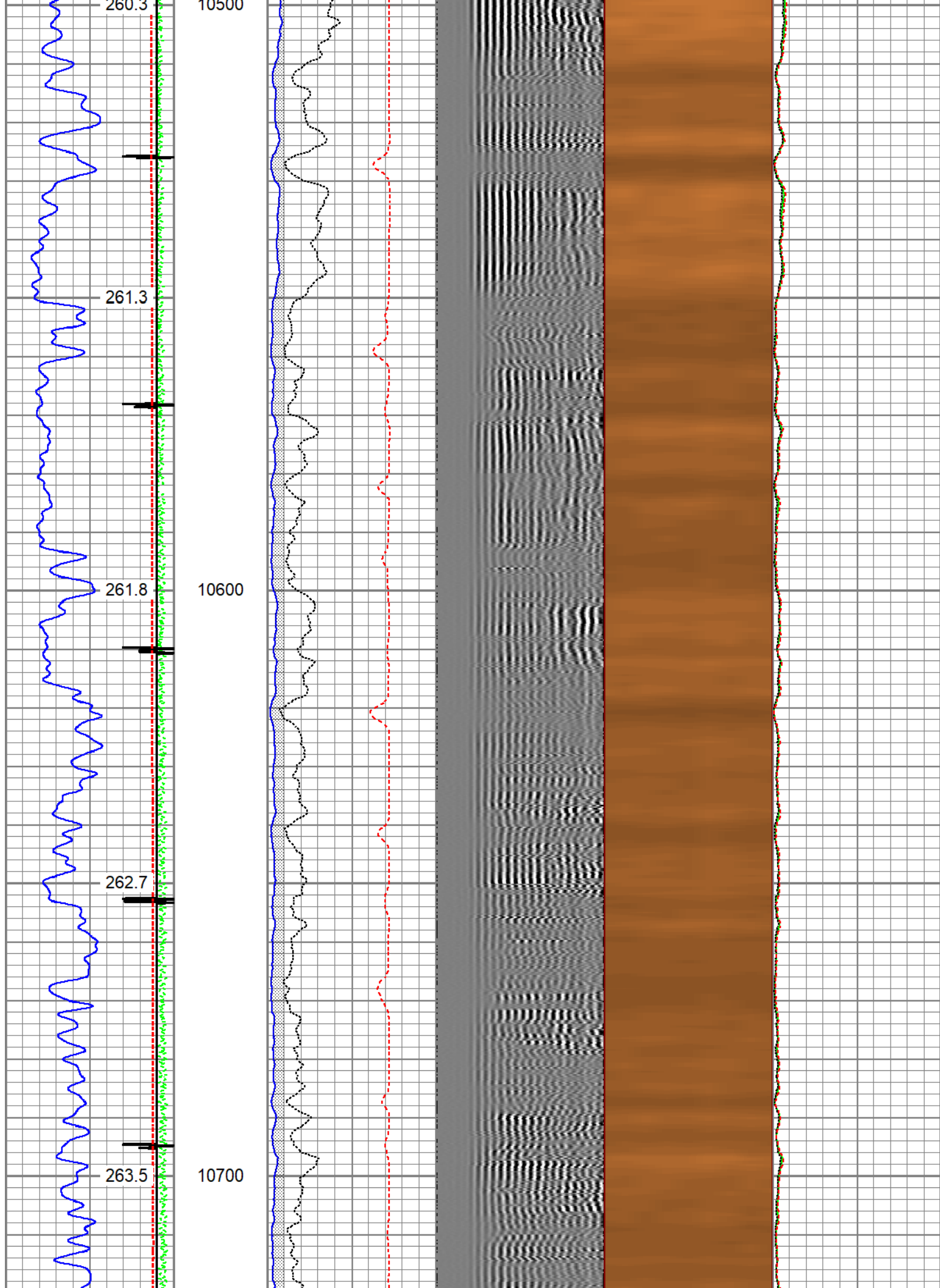


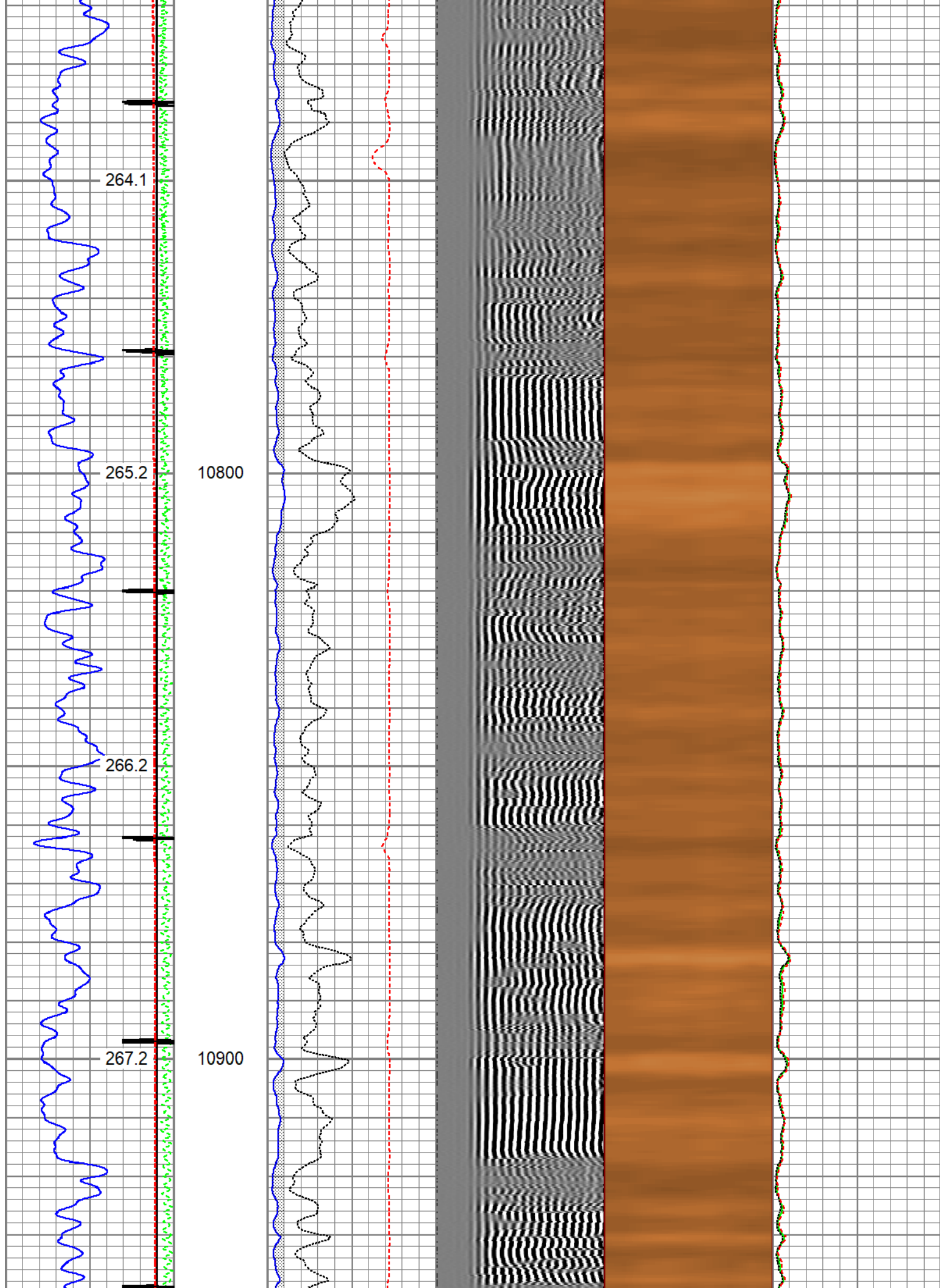




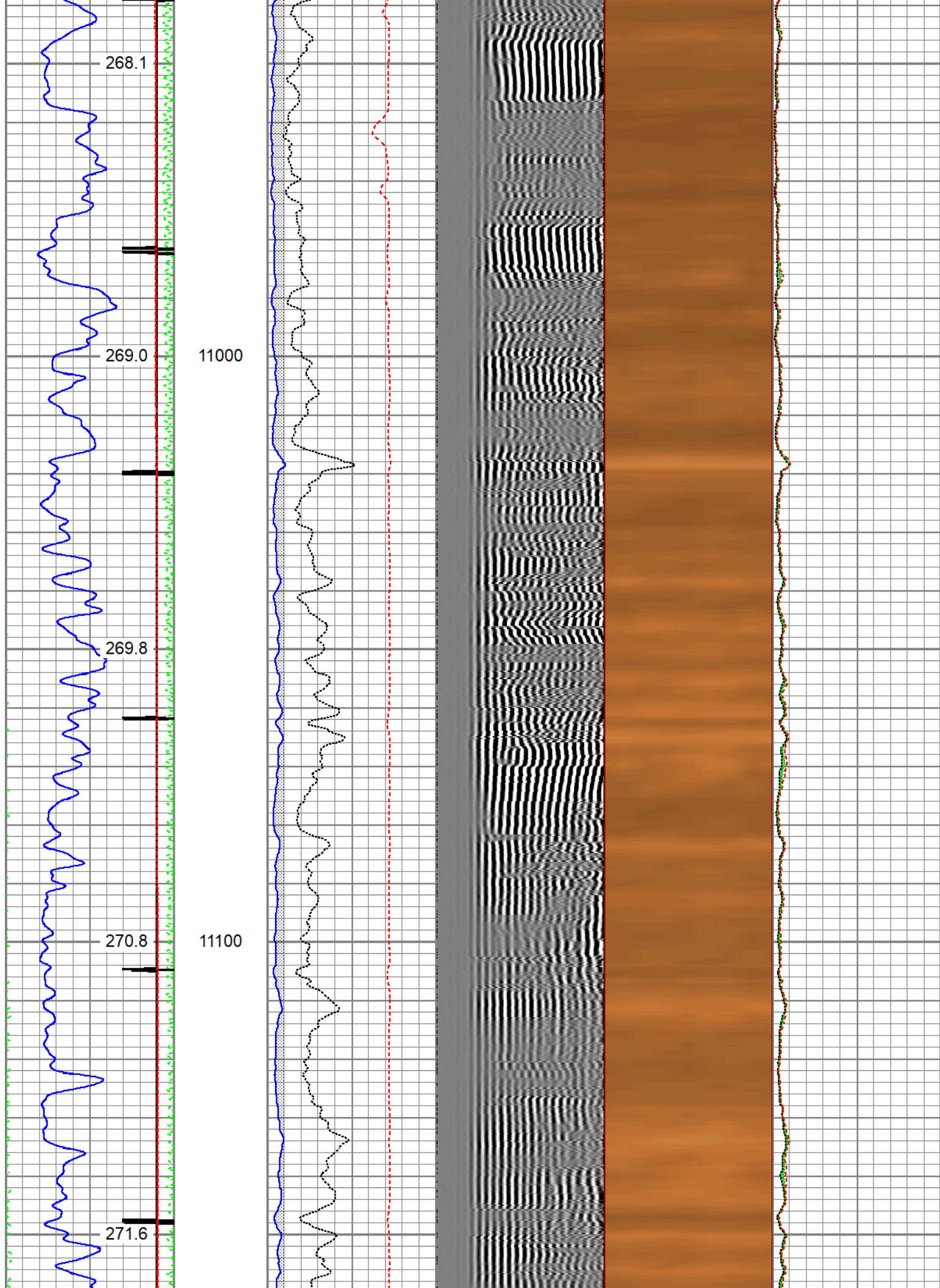


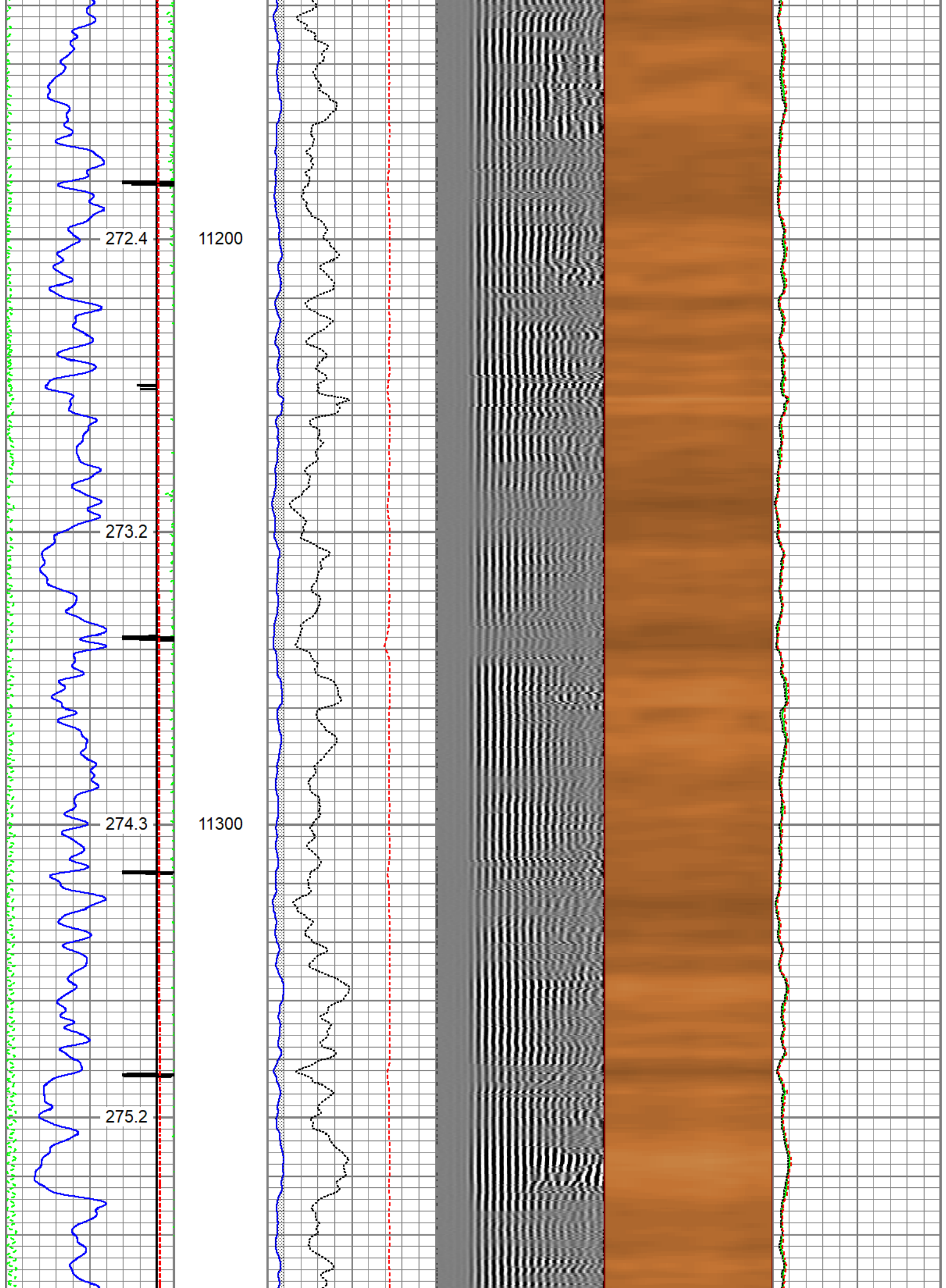


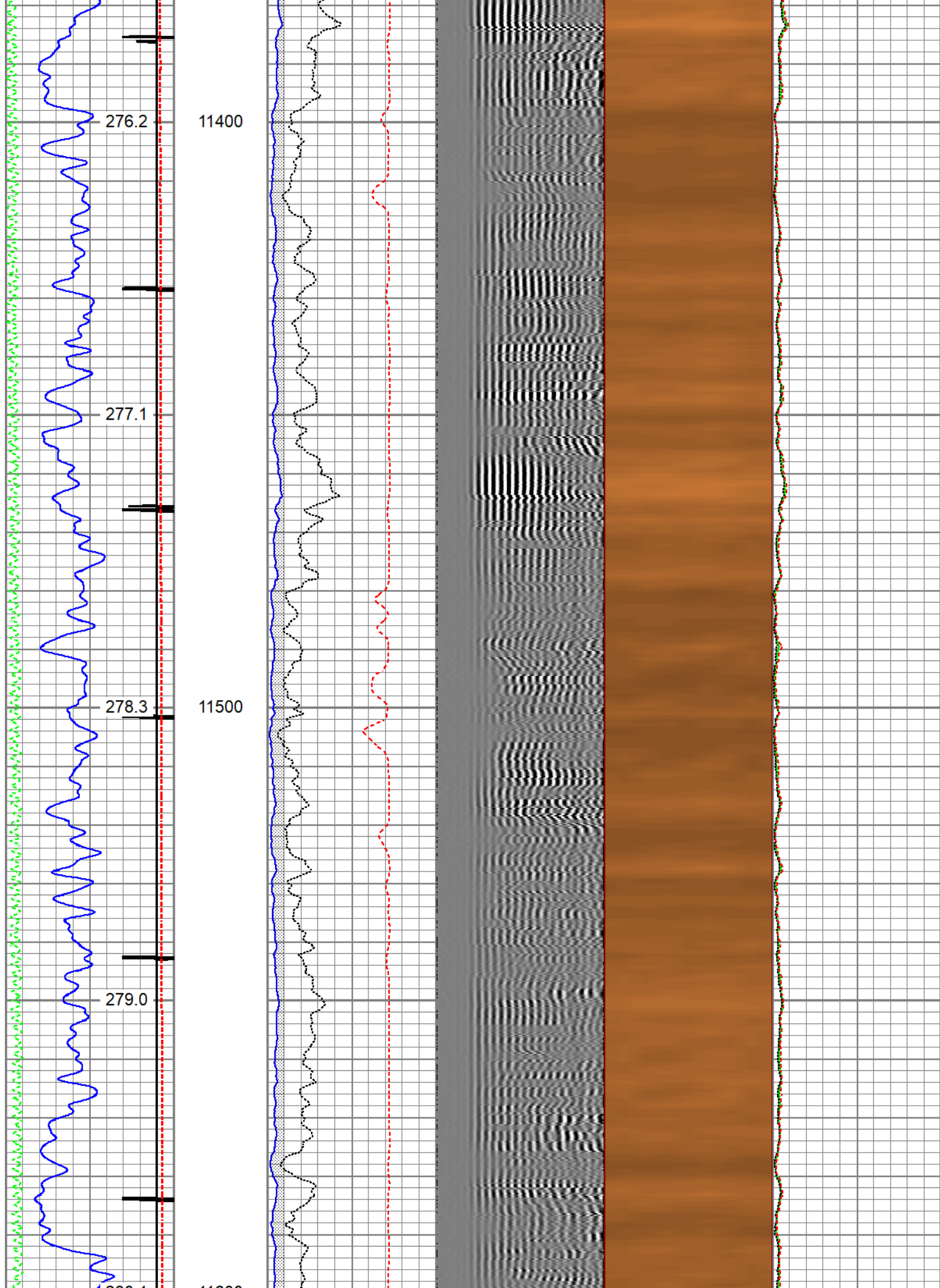




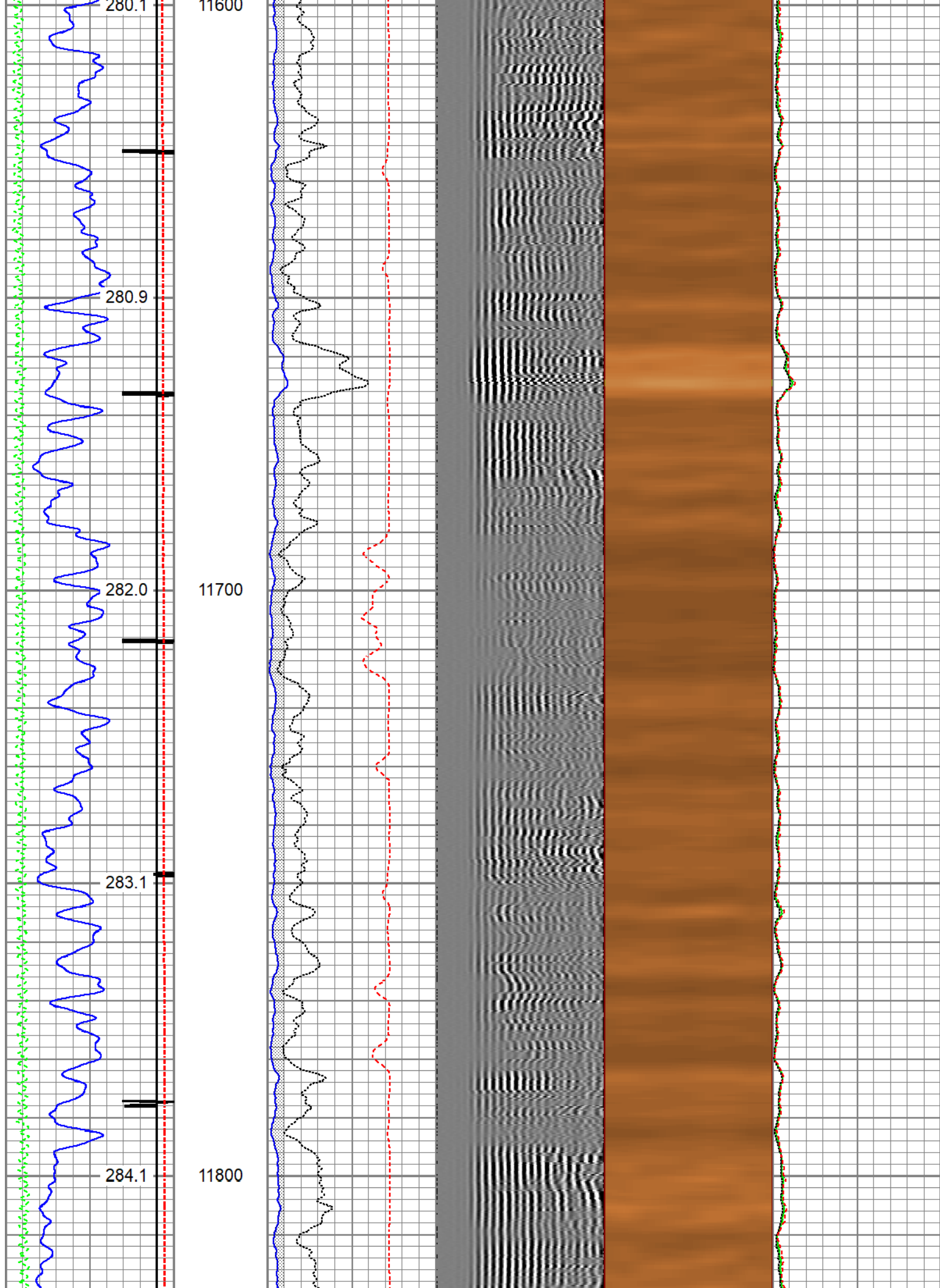


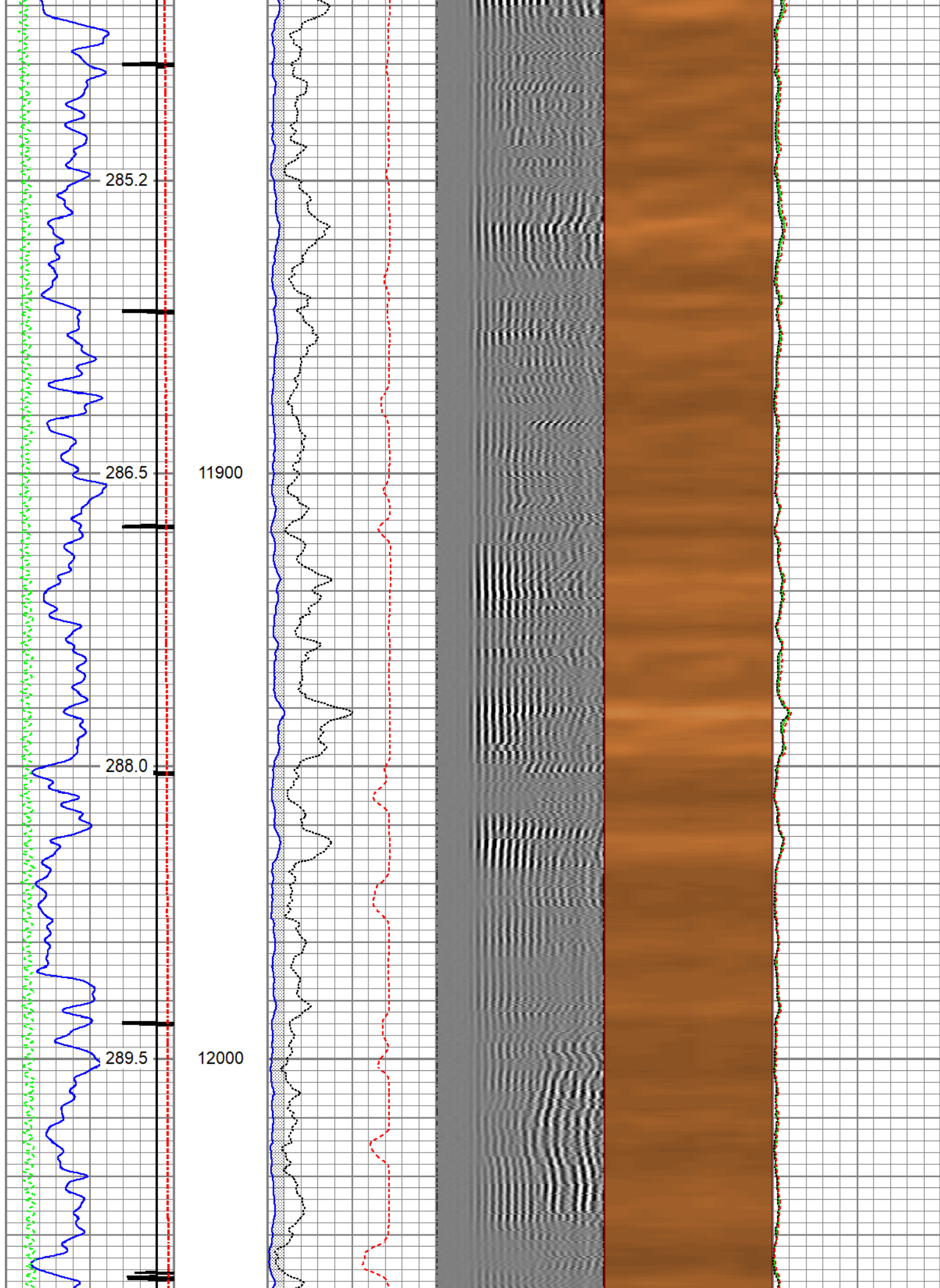


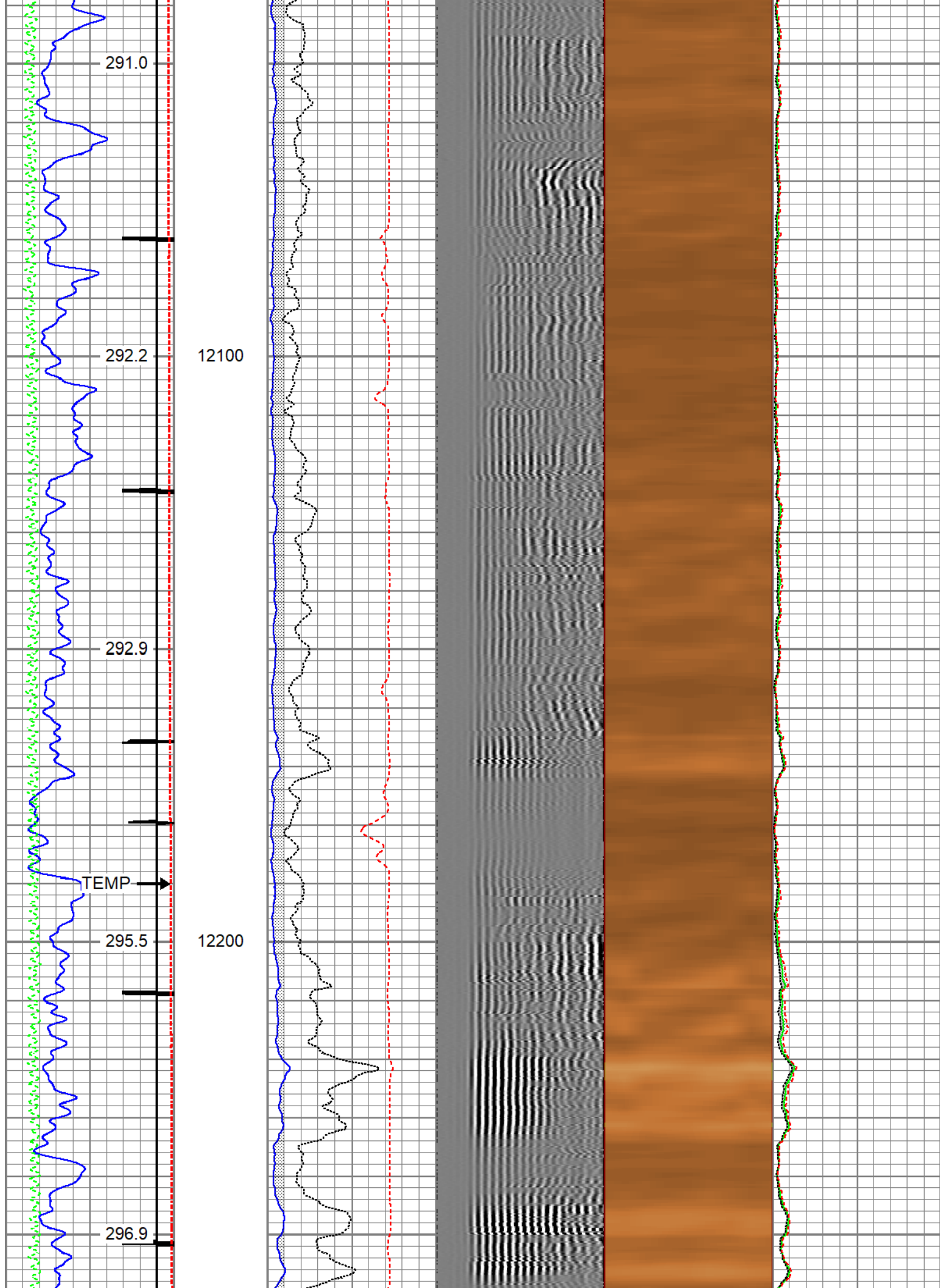




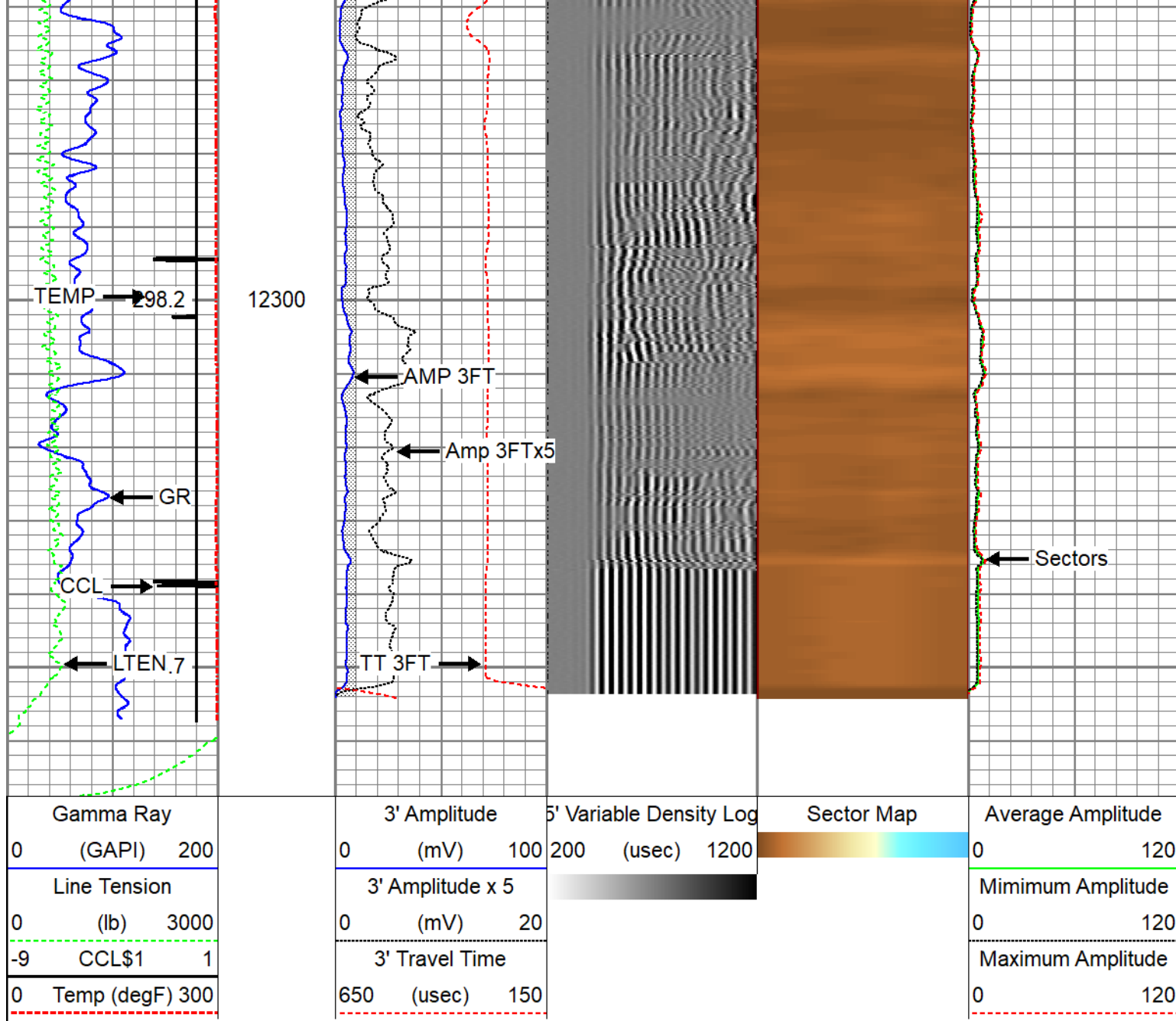






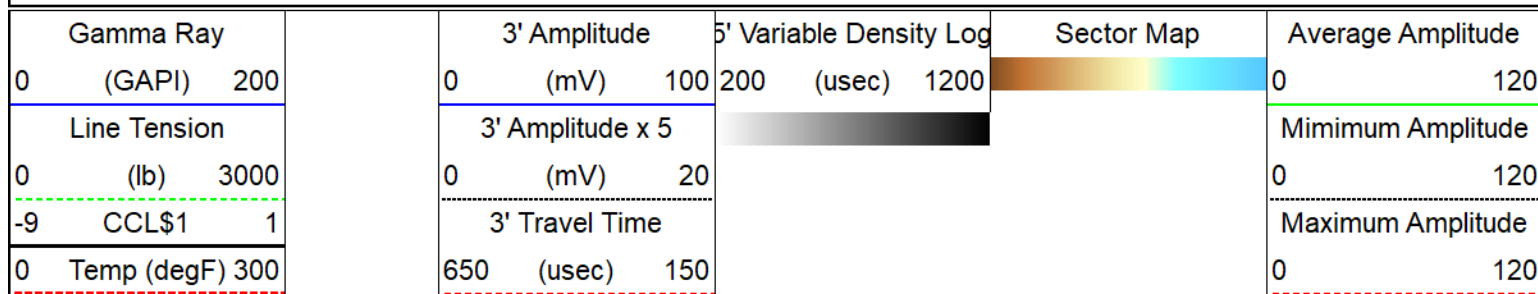


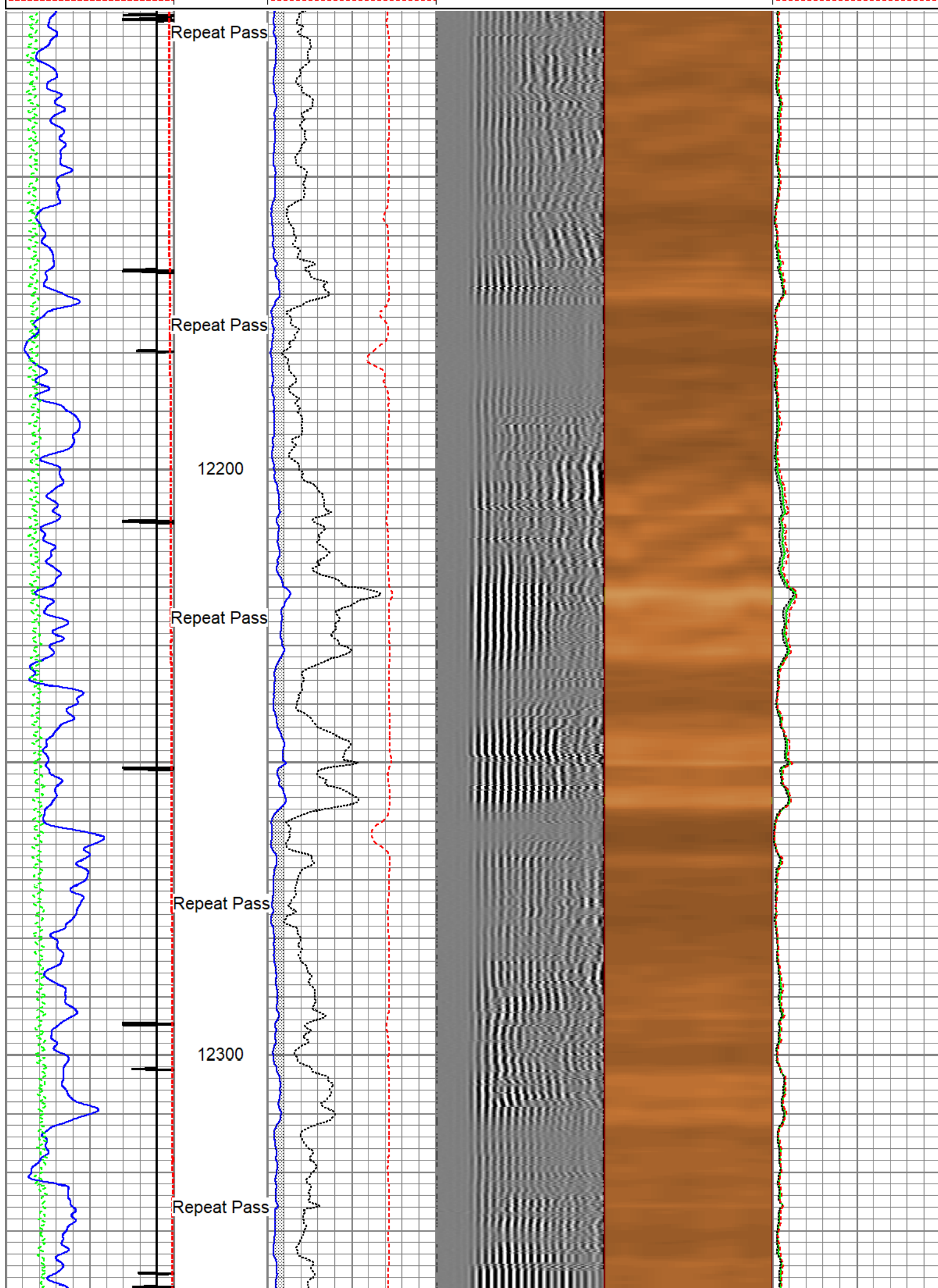


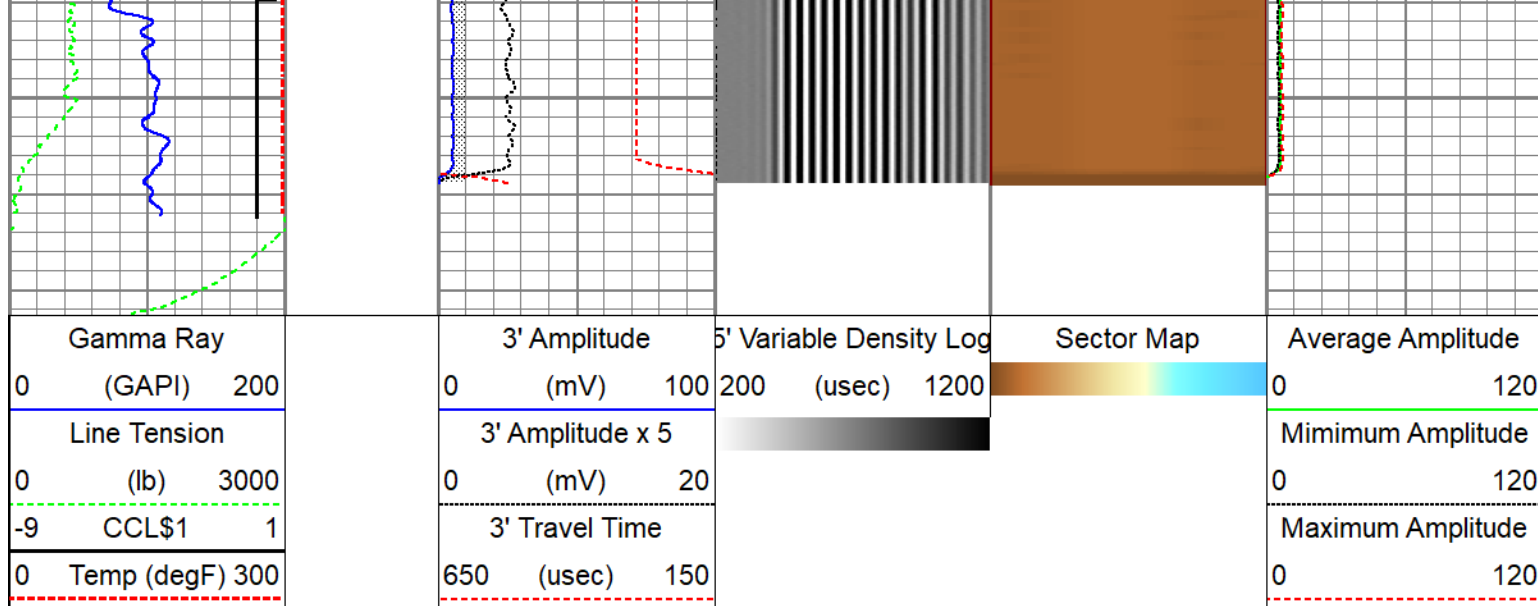


Repeat Pass 5" = 100'

Database File caerus\_bju b26 fed 24a-26-496\_rcbl-cn1\_12-23-2022.db  
 Dataset Pathname repeat  
 Presentation Format twgrcbl  
 Dataset Creation Fri Dec 23 10:46:56 2022  
 Charted by Depth in Feet scaled 1:240







Calibration Report				
Database File	caerus_bju b26 fed 24a-26-496_rcbl-cn1_12-23-2022.db			
Dataset Pathname	main			
Dataset Creation	Fri Dec 23 10:55:04 2022			
Compensated Neutron Calibration Report				
Model:		CNT - 275Dig		
Serial Number:		FW1409-35		
SHOP CALIBRATION		Thu Mar 31 15:47:13 2022		
	Cal Tube	Units		
Tank Ratio	11.6940	SS/LS		
LS Detector	68.71	cps		
SS Detector	748.49	cps		
Tool Ratio	10.8929	SS/LS		
Tool Gain	1.0735	----		
PRE-SURVEY VERIFICATION				
	SS Detector	LS Detector	Measured (p.u.)	Target (p.u.)
POST-SURVEY VERIFICATION				
	SS Detector	LS Detector	Measured (p.u.)	Target (p.u.)

Gamma Ray Calibration Report				
<div> <div>Serial Number:</div> <div>110255</div> </div> <div> <div>Tool Model:</div> <div>GCTacc_6-Pin-Base</div> </div> <div> <div>Performed:</div> <div>Thu Sep 22 15:12:49 2022</div> </div>				
<div> <div>Calibrator Value:</div> <div>165.0</div> </div> <div> <div>GAPI</div> </div>				
<div> <div>Background Reading:</div> <div>72.3</div> </div> <div> <div>cps</div> </div>				



Background Reading:	72.3	cps
Calibrator Reading:	300.9	cps
Sensitivity:	0.7216	GAPI/cps

### Inclinometer Calibration Report

Performed:	Thu Sep 22 15:14:31 2022				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-910.00	1566.00	-1.00	1.00	gee
Y Accelerometer	-989.00	1748.00	-1.00	1.00	gee
Z Accelerometer	1.02	-895.47	0.00	1.00	gee

### Segmented Cement Bond Log Calibration Report

Serial Number:	FW1311-19	
Tool Model:	Probe275acc	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	38.237	ft

Master Calibration, performed Thu Dec 22 08:35:22 2022:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.006	0.750	0.800	81.196	108.042	0.130
CAL	0.002	0.760				
5'	0.015	0.701	0.800	81.196	117.073	-0.921
SUM						
S1	0.007	0.754	0.000	100.000	134.009	-1.003
S2	0.007	0.757	0.000	100.000	133.390	-0.985
S3	0.006	0.767	0.000	100.000	131.461	-0.782
S4	0.007	0.761	0.000	100.000	132.784	-0.989
S5	0.009	0.755	0.000	100.000	133.981	-1.204
S6	0.006	0.747	0.000	100.000	135.070	-0.838
S7	0.007	0.752	0.000	100.000	134.071	-0.884
S8	0.007	0.743	0.000	100.000	135.879	-0.912

Internal Reference Calibration, performed (Not Performed):

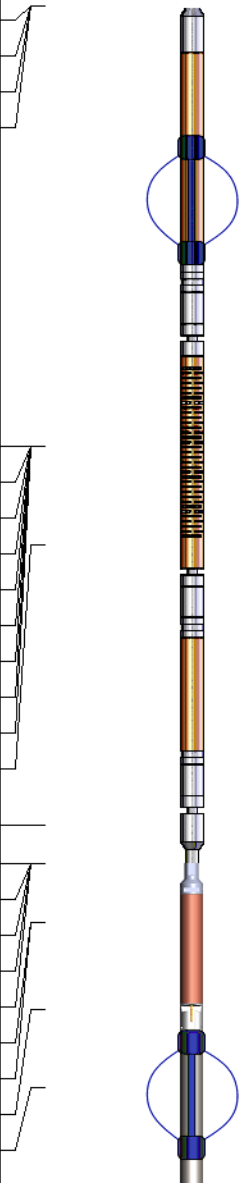
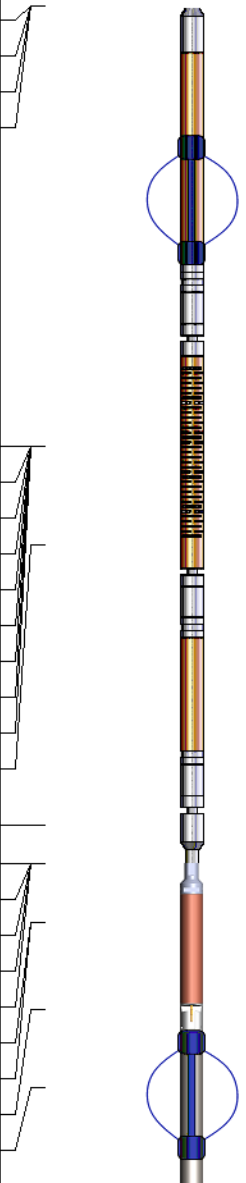
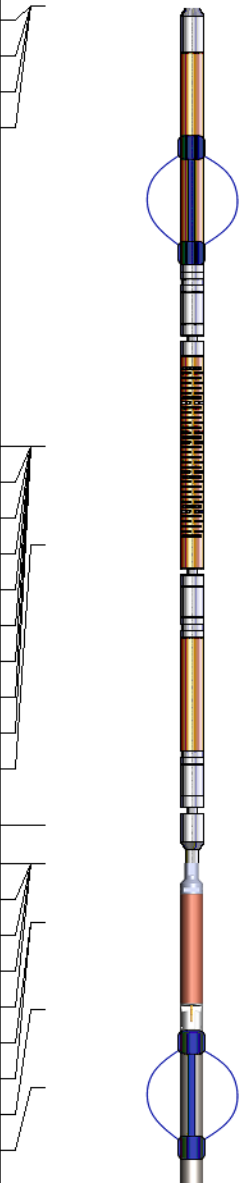
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.002	0.760	1.000	0.000

Air Zero Calibration, performed Thu Dec 22 08:34:24 2022:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000

S	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Inclinometer Calibration Report					
Performed:	Thu Jul 28 15:55:38 2022				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-914.00	901.00	-1.00	1.00	gee
Y Accelerometer	-903.00	898.00	-1.00	1.00	gee
Z Accelerometer	3.47	893.02	0.00	1.00	gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GCT_FMWR	19.32		SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
mSec_Count	19.32					
RBT_Status	19.32					
Error_Ct	19.32					
WVFS8	14.82		RBT8acc-Probe275acc (FW1311-19) 2.75" Radial Corrosion with accelerometer	8.75	2.75	110.00
WVFS7	14.82					
WVFS6	14.82					
WVFS5	14.82					
WVFS4	14.82					
WVFS3	14.82					
WVFS2	14.82					
WVFS1	14.82					
WVF3FT	14.82					
WVF5FT	13.82					
GCT_HV	10.95					
RBT_ACCZ	10.57					
RBT_ACCY	10.57					
RBT_ACCX	10.57					
WVFSYNC	10.57					
WVFCAL	10.57					
CCL\$2	9.96		SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
CCL\$1	9.96					
GCT_TEMP	9.08					
GR	8.28					
GCT_TEMP	8.28		GCacc-GCTacc 6-Pin-Base (110255)	5.00	2.75	

